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COMPARATIVE STATISTICS



STATE HOSPITALS FOR MENTAL DISEASES

1920

BY

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PUBLISHED BY BUREAU OF STATISTICS
THE NATIONAL COMMITTEE FOR MENTAL HYGIENE
370 SEVENTH AVENUE, NEW YORK CITY

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COMPARATIVE STATISTICS OF STATE HOSPITALS FOR MENTAL DISEASES, 1920*

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NEARLY all of the state hospitals for mental diseases throughout the country are using the system of statistics and classification adopted by the American Psychiatric Association in 1917. The larger part of these hospitals are sending duplicate copies of their annual statistical tables to the National Committee for Mental Hygiene, which has actively cooperated with the American Psychiatric Association in introducing the system. The Bureau of Statistics of the National Committee has annually compiled the statistical reports received from the several hospitals, beginning with the year 1918, and has published the results in condensed form in *Mental Hygiene*. These studies of state hospital data, together with the censuses of patients in institutions on January 1, 1917, 1918 and 1920, constitute the only available national statistics of mental disease since the Federal census study of 1910.

This study is a continuation of the series begun in 1918 and comprises data compiled from the uniform tabular reports of 77 hospitals representing 26 states. The reports received from a few additional hospitals could not be included on account of various inconsistencies and inaccuracies and the fact that some hospitals preparing biennial reports did not compile them by separate years. It is regrettable that reports could not be secured from all the

*The authors wish to express their appreciation of the generous cooperation of the superintendents of the state hospitals represented in this study, and to acknowledge their indebtedness to Miss Adah K. Attwood, Assistant Statistician of the National Committee for Mental Hygiene, who checked the reports from the hospitals and compiled many of the tables herein published.

hospitals in a larger number of states so that comparative rates might be based upon the general population. It must be remembered, however, that the year 1920 was a trying period for most state hospitals. There was a serious shortage of physicians, nurses, attendants and clerks. Consequently many superintendents felt the necessity of curtailing their statistical reports. It is believed that when normal conditions are restored in the state hospitals a greater degree of cooperation in statistical reports will be secured.

The data contained in this study, while not complete, are representative, and afford an adequate basis for the comparison of the results of one hospital with those of others similarly situated. The following topics are included, each of which is the subject of a separate table:

1. Patients, physicians and employees.
2. Expenditures for maintenance.
3. Movement of patient population.
4. Psychoses of first admissions.
5. Nativity of first admissions.
6. Age of first admissions.
7. Degree of education of first admissions.
8. Environment of first admissions.
9. Economic condition of first admissions.
10. Use of alcohol by first admissions.
11. Marital condition of first admissions.
12. Discharges, classified with reference to psychoses and condition on discharge.
13. Recovery and improvement rates.
14. Duration of hospital life of patients dying in the state hospitals.
15. Deaths and death rates.

Owing to the incompleteness of some of the reports, the number of hospitals represented varies somewhat in the several tables. The number is indicated in the heading of each table.

PATIENTS, PHYSICIANS, AND EMPLOYEES

(See Table 1, page 23)

Table 1 shows a wide divergence in the ratio of patients to physicians and employees in the several states. In very few hospitals is the pre-war standard of 1 physician to 150 patients maintained; in some states the ratio is lower than 1 to 300. The average ratio in the whole group combined is 1 to 218.9. This is a marked gain over the average ratio shown in the study of 1918,* namely, 1 to 242.7. Had the vacancies on the medical staffs in 1920 been filled, the average ratio would probably have been better than 1 to 200. The general average ratio of ward employees to patients in 1920 was 1 to 13.0, as compared with 1 to 12.5 in 1918; of all employees to patients in 1920, 1 to 6.7 and in 1918, 1 to 6.9.

These figures indicate an unsatisfactory standard of care in many hospitals, which it is hoped will prove to be merely a transient condition.

EXPENDITURES FOR MAINTENANCE

(See Table 2, page 27)

The amounts required for the maintenance of patients in state hospitals in 1920 were appalling. The average per state hospital was nearly a half million dollars, while the expenditures of Manhattan State Hospital, the largest of the group, were \$1,783,048.88. The general average per capita expenditure for maintenance in 1920 was \$315.28, as compared with \$261.79 for the same group of hospitals in 1918. It will be remembered that the index of the cost of living, which rose rapidly during the war, reached its highest point in 1920. Comparing the figures of 1918 with those of 1920, it will be observed that there was an increase in nearly every hospital in the latter year, although in some hospitals the increase is much more marked than in others. The per capita cost of maintenance in the hospitals of

* Comparative Statistics of State Hospitals for Mental Diseases, 1918. By H. M. Pollock and Edith M. Furbush. Mental Hygiene, vol. IV, pp. 137-191, January, 1920.

Massachusetts and New York was much higher than in those of Ohio and Pennsylvania. The per capita cost in the northern and eastern states in general was also higher than in the southern and western states.

MOVEMENT OF PATIENTS

(See Table 3, page 29)

The distinction between "first admissions" and "readmissions," which until recently has caused so much confusion in hospital statistics, is now being uniformly made, and there is no longer any serious difficulty with respect to returned escapes and paroles. The latter are not counted as admissions unless they have been previously discharged from the books.

Likewise the data relative to discharges are freed from the duplications which previously occurred in some hospitals when paroles and escapes were counted as discharges while still being carried on the hospital books. Under the present system, parole is considered as an incident in treatment, and the paroled patient is continued on the books until the expiration of the parole period.

The increase in patients during the year in most of the hospitals listed in the table was very small, and in some a decrease occurred. The total net increase was less than two per cent.

PSYCHOSES OF FIRST ADMISSIONS

(See Table 4, page 33)

The 21,742 first admissions classified in Table 4 constitute the largest group of diagnoses of mental disorders that has been brought together under the uniform system. Although marked variations are seen in the relative distribution of the various psychoses in the several hospitals, the results as a whole are very similar to those obtained in our study* of mental diseases for the year 1919.

* Mental Diseases in Twelve States, 1919. By H. M. Pollock and Edith M. Furbush. *Mental Hygiene*, vol. V, pp. 353-389, April, 1921.

Distribution of Principal Psychoses, 1919 and 1920

Psychoses	1919		1920	
	Number	Per cent	Number	Per cent
Senile	1,742	11.4	2,550	12.1
With cerebral arteriosclerosis..	844	5.5	1,350	6.4
General paralysis	1,514	9.9	2,219	10.6
Alcoholic	703	4.6	476	2.3
Manic-depressive	2,269	14.8	3,366	16.0
Involution melancholia	453	3.0	683	3.3
Dementia præcox	4,280	28.0	5,676	27.9
Paranoia or paranoid conditions	266	1.7	594	2.8
Epileptic psychoses	464	3.0	560	2.7
Psychoneuroses and neuroses..	272	1.8	435	2.1
With psychopathic personality	210	1.4	492	2.3
With mental deficiency	508	3.3	680	3.2
All other psychoses	1,769	11.6	1,931	9.2
Total	15,294	100.0	21,012	100.0

The most remarkable change since 1919 has been the reduction of alcoholic psychoses, the percentage having dropped from 4.6 to 2.3. This is apparently due to more rigid restrictions of the liquor traffic. It will be noted that a few hospitals report no alcoholic cases. The gradual reduction of alcoholic cases from about 10 per cent in 1910 to about 2 per cent in 1920 is a noteworthy accomplishment. Data presented in other studies* also indicate that alcohol has been largely eliminated as an etiological factor in psychoses other than the alcoholic group.

The percentage of general paralysis cases among the first admissions included in this study is a trifle larger than that found in the group studied in 1919, but the variation is not sufficient to indicate a rising trend. The prevalence of dementia præcox and of manic-depressive psychoses among the first admissions varies greatly in the different states. This is probably due in part to differences in standards of diagnosis and in part to actual differences in forms of mental disease occurring in various parts of the country.

* Decline of Alcohol and Drugs as Causes of Mental Disease. By H. M. Pollock. *Mental Hygiene*, vol. V, pp. 123-129, January, 1921.

READMISSIONS

As the psychoses of readmissions have less significance, they are not set forth in detail for the several hospitals, but the data are condensed into the following table showing the number and per cent distribution of the different psychoses.

Psychoses of Readmissions to 70 State Hospitals for Mental Diseases, for the Fiscal Year 1920

Psychoses	Number			Per cent			Total
	Males	Females	Total	Males	Females		
Traumatic	5	..	5	0.2	...		0.1
Senile	56	84	140	2.1	3.3		2.7
With cerebral arteriosclerosis ...	63	36	99	2.3	1.4		1.9
General paralysis	159	44	203	5.9	1.7		3.8
With cerebral syphilis	11	13	24	0.4	0.5		0.5
With Huntington's chorea .....	..	1	1	...	...		...
With brain tumor	2	1	3	0.1	...		0.1
With other brain or nervous diseases	9	9	18	0.3	0.4		0.3
Alcoholic	102	17	119	3.8	0.7		2.3
Due to drugs and other exogenous toxins	12	11	23	0.4	0.4		0.4
With pellagra	1	12	13	...	0.5		0.2
With other somatic diseases	14	27	41	0.5	1.1		0.8
Manic-depressive	789	1,047	1,836	29.1	40.9		34.8
Involution melancholia	40	70	110	1.5	2.7		2.1
Dementia præcox	964	758	1,722	35.5	29.6		32.6
Paranoia or paranoid conditions..	64	75	139	2.4	2.9		2.6
Epileptic psychoses	56	62	118	2.1	2.4		2.2
Psychoneuroses and neuroses	37	55	92	1.4	2.1		1.7
With psychopathic personality ...	92	65	157	3.4	2.5		3.0
With mental deficiency	85	79	164	3.1	3.1		3.1
Undiagnosed psychoses	61	52	113	2.2	2.0		2.1
Without psychosis	94	42	136	3.5	1.6		2.6
Total	2,716	2,560	5,276	100.0	100.0		100.0

It will be noted that more than two-thirds of the readmissions are classed in the two groups, manic-depressive psychoses and dementia præcox.

NATIVITY AND CITIZENSHIP

(See Table 5, page 41)

Table 5 shows marked variations in the different sections of the country with respect to the admission of foreign-born

and alien patients. The eastern states receive a very much larger proportion of immigrants than the western states. The per cent distribution of the whole group with respect to nativity is shown in the accompanying tabulation.

Nativity of First Admissions to 71 State Hospitals for Mental Diseases, for the Fiscal Year 1920

Country of birth	Number	Per cent
United States	14,006	67.0
Total foreign born	6,902	33.0
Austria	597	2.9
Belgium	24	0.1
Bohemia	37	0.2
Canada	562	2.7
Czecho-Slovakia	47	0.2
Denmark	71	0.3
England	390	1.9
Finland	72	0.3
France	83	0.4
Germany	773	3.7
Greece	89	0.4
Holland	33	0.2
Hungary	277	1.3
Ireland	869	4.2
Italy	847	4.1
Mexico	163	0.8
Norway	88	0.4
Poland	321	1.5
Portugal	28	0.1
Roumania	53	0.3
Russia	733	3.5
Scotland	105	0.5
Spain	37	0.2
Sweden	198	0.9
Switzerland	50	0.2
Turkey	58	0.3
West Indies	83	0.4
Other countries	214	1.0
<hr/> Total	20,908	100.0

The above figures indicate the types of immigrant patients being received in the hospitals, but in the absence of data with respect to the general population do not throw any light on the question of the relative prevalence of mental diseases among the immigrants coming from the different countries.

The data received from the hospitals reporting the citizenship of first admissions when combined give the following totals:

Citizenship of First Admissions to 68 State Hospitals for Mental Diseases, for the Fiscal Year 1920

Citizenship	Males	Females	Number	Total
				Per cent
Citizens by birth	7,552	6,210	13,762	67.1
Citizens by naturalization..	1,309	1,120	2,429	11.8
Aliens	2,034	1,340	3,374	16.5
Citizenship unascertained..	503	438	941	4.6
Total	11,398	9,108	20,506	100.0

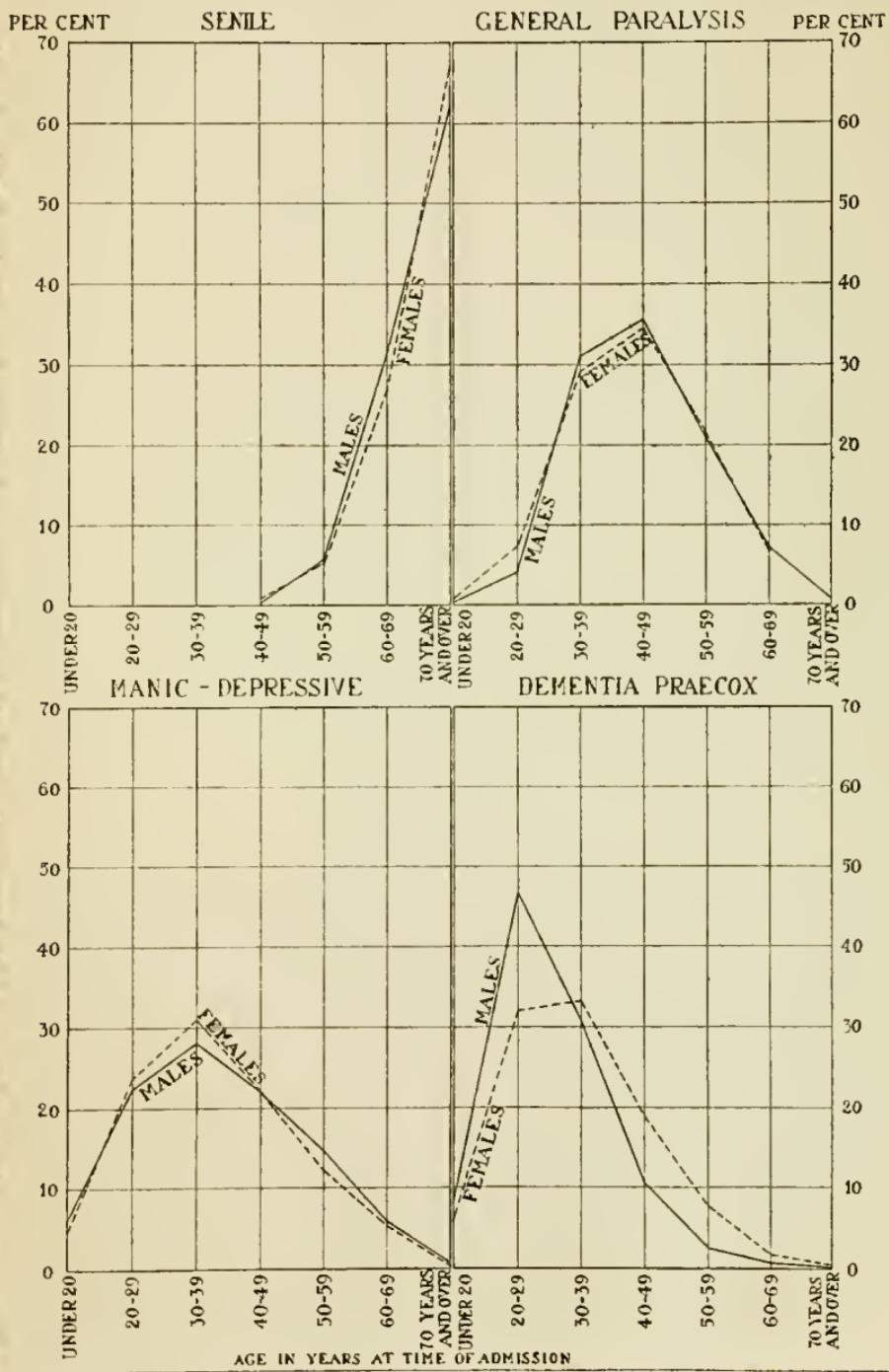
The fact that one-sixth of the first admissions to these state hospitals are aliens calls for remedial legislation. It cannot be expected that the states will continue indefinitely to make provision for so large a number of citizens of other countries when the state hospitals are now filled to overflowing and the burden of the care of the citizen insane is becoming so heavy.

AGE DISTRIBUTION

(See Table 6, page 53)

Table 6 shows very clearly that age and sex are highly important factors in the various psychoses. It is seen that the distribution by age groups varies greatly in the different forms of mental disease and that the distribution of the totals throws very little light on the relative frequency of any particular psychosis at different periods of life. The accompanying series of frequency charts illustrates these differences and indicates in a striking way the distribution of the various disorders in the several age groups.

PER CENT DISTRIBUTION BY AGE GROUPS
OF FIRST ADMISSIONS WITH CERTAIN PSYCHOSES



DEGREE OF EDUCATION

(See Table 7, page 57)

Of the 20,238 patients in Table 7 whose degree of education was ascertained, 2,054, or 10.1 per cent, were reported as illiterate; 4,565, or 22.6 per cent, as merely able to read and write; 11,257, or 55.6 per cent, as having a common school education; 1,852, or 9.2 per cent, as having attended high school; and 510, or 2.5 per cent, as having attended college. The degree of education of 1,122 cases was not ascertained.

A noteworthy fact brought out in the table is the high percentage of patients with drug psychoses who had the advantage of a high-school or collegiate education. An explanation is found in part in the relatively large number of trained nurses and physicians who acquire the drug habit. Other groups in which the admissions have educational training above the average are the traumatic, with brain tumor, manic-depressive, involution melancholia, and psychoneuroses and neuroses groups. The highest proportion of illiterates is, of course, found in the mental deficiency group, while high percentages are also seen in the senile, pellagra and epileptic groups.

ENVIRONMENT

(See Table 8, page 58)

Of the 21,817 first admissions included in Table 8, 15,577, or 71.4 per cent, were from urban environment, 5,913, or 27.1 per cent, were from rural, while the environment of 327, or 1.5 per cent, was unascertained. The terms urban and rural are used as in the classification of the Federal Census Bureau, "urban" applying to places having a population of 2,500 or more and "rural" to all others. The dementia-præcox group furnishes 28.4 per cent of the first admissions from an urban environment, manic-depressive 15.1 per cent, general paralysis 12.6 per cent, and senile psychoses 10.7 per cent. In the rural group, the dementia-præcox cases constitute 25.3 per cent of the first admissions, followed by the manic-depressive with 18.6 per cent, and

the senile with 15.6 per cent, with general paralysis contributing only 5.2 per cent. The number and percentage of each psychosis among the first admissions for the years 1919 and 1920 are shown in the following table, the 1919 data including 32 state hospitals and the 1920, 72 such hospitals.

Distribution by Psychoses of First Admissions from Urban and Rural Environments, 1919 and 1920

Psychoses	Urban				Rural			
	1919 Number	1919 Per cent	1920 Number	1920 Per cent	1919 Number	1919 Per cent	1920 Number	1920 Per cent
Senile	873	10.6	1,611	10.7	468	14.9	887	15.6
With cerebral								
arteriosclerosis	403	4.9	1,001	6.6	118	3.8	363	6.4
General paralysis	1,041	12.6	1,902	12.6	178	5.7	297	5.2
Alcoholic	333	4.0	400	2.7	56	1.8	77	1.4
Manic-depressive	1,271	15.4	2,272	15.1	598	19.0	1,059	18.6
Involution melancholia	253	3.1	417	2.8	109	3.5	205	3.6
Dementia praecox	2,341	28.4	4,276	28.4	826	26.3	1,444	25.3
Paranoia or paranoid								
conditions	131	1.6	347	2.3	49	1.6	148	2.6
Epileptic psychoses ...	231	2.8	359	2.4	144	4.6	209	3.7
Psychoneuroses and								
neuroses	128	1.6	292	1.9	45	1.4	138	2.4
With psychopathic								
personality	136	1.7	383	2.5	44	1.4	97	1.7
With mental deficiency	224	2.7	415	2.8	139	4.4	260	4.6
All other psychoses ..	871	10.6	1,404	9.3	366	11.7	514	9.0
Total	8,236	100.0	15,079	100.0	3,140	100.0	5,698	100.0

The following psychoses showed increases in percentages for urban admissions from 1919 to 1920, worthy of mention: psychoses with cerebral arteriosclerosis, paranoia, psychoneuroses and neuroses, and psychoses with psychopathic personality. In the following groups among the admissions from urban environment, there was a decrease in the percentage of first admissions: alcoholic psychoses, manic-depressive, involution melancholia and epileptic psychoses. Among the first admissions from rural communities, the following showed an increase in percentage of first admissions: senile, with cerebral arteriosclerosis, paranoia, psy-

choneuroses and neuroses, psychoses with psychopathic personality, and with mental deficiency, while a decrease is noted in the following: general paralysis, alcoholic psychoses, manic-depressive, dementia *præcox* and epileptic psychoses. The most important changes were in the alcoholic and arteriosclerotic groups.

ECONOMIC CONDITION

(See Table 9, page 59)

The headings in Table 9 are used as in the *Statistical Manual* and are defined as follows: "Dependent," lacking in the necessities of life or receiving aid from public funds or persons outside the immediate family; "marginal," living on daily earnings, but accumulating little or nothing, being on the margin between self-support and dependency; "comfortable" having accumulated resources sufficient to maintain self and family for at least four months.

Comparing the results shown in Table 9 with those obtained in the study of 1919,* we find marked differences in the relative proportion of patients who were "dependent," "marginal," and "comfortable" on admission. The following summary presents numbers and percentages based upon the totals ascertained for the two years, including 40 hospitals for 1919, and 69 hospitals for 1920.

Distribution by Economic Condition of First Admissions, 1919 and 1920

Economic condition	1919		1920	
	Number	Percent	Number	Percent
Dependent	1,857	13.9	3,979	20.4
Marginal	9,178	68.5	10,897	56.0
Comfortable	2,358	17.6	4,597	23.6
 Total	 13,393	 100.0	 19,473	 100.0

The differences in the percentages for the two years are larger than would be expected, but conditions have been

* Social Facts Relative to Patients with Mental Diseases. By Edith M. Furbush. *Mental Hygiene*, vol. V, pp. 587-611, July, 1921.

unusual and it is known that marked changes in the economic condition of a considerable proportion of the population took place in 1919 and 1920.

USE OF ALCOHOL

(See Table 10, page 60)

As previously mentioned, the proportion of patients admitted with a record of intemperate use of alcohol is lessening year by year. The data shown by this table indicate a decline since 1919. These results do not bear out the statements frequently found in the daily press that the consumption of strong liquor is increasing. The proportion of first admissions in the principal psychoses for the years 1919 and 1920 with a record of intemperate use of alcohol is shown in the accompanying table. The 1919 data include 38 state hospitals with 12,179 first admissions; and the 1920, 69 such hospitals with 18,687 first admissions.

Intemperate Users of Alcohol among First Admissions in Principal Psychoses, 1919 and 1920

Psychoses	1919		1920	
	Number	Per cent*	Number	Per cent*
Senile	130	10.4	210	9.7
With cerebral arteriosclerosis..	105	14.2	178	14.1
General paralysis	316	25.1	563	28.4
Alcoholic	667	100.0	468	100.0
Manic-depressive	114	6.8	240	8.1
Involution melancholia	21	5.0	33	5.4
Dementia præcox	331	9.6	552	10.6
Paranoia or paranoid conditions	26	12.0	50	11.4
Epileptic psychoses	38	10.5	46	9.4
Psychoneuroses and neuroses..	10	4.3	20	5.0
With psychopathic personality	27	15.3	81	17.5
With mental deficiency	43	11.1	71	12.5
All other psychoses	175	12.8	228	13.5
Total	2,003	16.4	2,740	14.7

* Based upon total ascertained and excluding admissions without psychosis.

MARITAL CONDITION

(See Table 11, page 61)

Table 11 has much significance in indicating the social make-up of the first admissions in the various psychoses. An analysis of results in the several groups shows marked differences between males and females in regard to marriage prior to the onset of the psychosis. A comparison of the distribution with respect to marital state in the principal psychoses is shown in the accompanying table (page 17).

The very high percentage of single patients in the dementia-præcox group confirms previous observations that sexual maladaptation is a prominent factor in this disorder.

RESULTS OF TREATMENT

(See Tables 12 and 13, pages 63 and 64)

Table 12 includes the discharges of 69 state hospitals and classifies them by psychoses and condition on discharge, while Table 13 gives the number of patients discharged as recovered and improved in the separate hospitals and the rate based on all admissions for each sex. Of the 13,540 discharges classified in Table 12, 4,781, or 35.3 per cent, were discharged as recovered; 6,034, or 44.6 per cent, as improved; 2,022, or 14.9 per cent, as unimproved, and 703, or 5.2 per cent, as without psychosis. More than half of the recoveries were in the manic-depressive group. The next largest group of recoveries was the alcoholic. Three hundred and fifty-seven dementia-præcox patients were discharged as recovered and 2,448 as improved. These figures would indicate that this type of mental disease is not so hopeless as was once thought.

Referring to Table 13, we find wide variation in the percentages of cases discharged as recovered and improved from the several hospitals. This fact is accounted for in part by differences in administrative policies in the various states, and in part by actual differences in results of treatment.

Distribution by Marital Condition in the Principal Psychoses

PSYCHOSES	TOTAL		SINGLE		MARRIED		WIDOWED		SEPARATED		DIVORCED	
	AS CERTAINED	Number	Per cent	Number	Per cent	Number						
Senile	2,477	100.0	364	14.7	838	33.8	1,209	48.8	25	1.0	41	1.7
With cerebral arteriosclerosis	1,362	100.0	189	13.9	684	50.2	448	32.9	24	1.8	17	1.2
General paralysis	2,188	100.0	485	22.2	1,354	61.9	221	10.1	55	2.5	73	3.3
Alcoholic	474	100.0	185	39.0	228	48.1	43	9.1	7	1.5	11	2.3
Manic-depressive	3,338	100.0	1,108	33.2	1,874	56.1	232	7.0	65	1.9	59	1.8
Involution melancholia	625	100.0	127	20.3	385	61.6	91	14.6	9	1.4	13	2.1
Dementia præcox	5,749	100.0	3,501	60.9	1,780	31.0	263	4.6	95	1.7	110	1.9
Paranoia or paranoid conditions	496	100.0	152	30.6	242	48.8	69	13.9	15	3.0	18	3.6
Epileptic psychoses	565	100.0	335	59.3	169	29.9	35	6.2	11	1.9	15	2.7
Psychoneuroses and neuroses	433	100.0	164	37.9	224	51.7	29	6.7	3	0.7	13	3.0
With psychopathic personality	486	100.0	289	59.5	152	31.3	19	3.9	16	3.3	10	2.1
With mental deficiency	677	100.0	517	76.4	118	17.4	24	3.5	13	1.9	5	0.7
All other psychoses	1,928	100.0	540	28.0	1,094	56.7	219	11.4	41	2.1	34	1.8
Total	20,798	100.0	7,956	38.3	9,142	44.0	2,902	14.0	379	1.8	419	2.0

In considering rates of recovery and improvement based on all admissions, it must be borne in mind that any marked increase or decrease of admissions during a given year in any hospital will inversely affect such rates. It is well understood that a large part of the discharges of one year come from the admissions of the preceding year. When the admission rate of the hospital is uniform year by year, it is fair to compute recovery rates on all admissions, but if the admissions from year to year change to a considerable extent, the basis becomes less satisfactory.

The following table shows a comparison of the recovery and improvement rates in the various psychoses for the years 1919 and 1920. The rates are based upon the total number of patients admitted, excluding transfers and those admissions without psychosis. The better results in 1920 are noteworthy.

*Recovery and Improvement Rates in Principal Psychoses
Based on Total Admissions, 1919 and 1920*

Psychoses	Total		Per cent dis- charged as recovered		Per cent dis- charged as improved	
	1919	1920	1919	1920	1919	1920
Senile	7.3	8.4	0.3	0.5	7.0	7.9
With cerebral arteriosclerosis	12.2	12.9	2.1	1.5	10.1	11.4
General paralysis	8.9	13.0	...	0.4	8.9	12.6
Aleoholic	85.1	127.1	50.2	80.7	34.9	46.4
Manic-depressive	63.3	75.4	42.8	51.4	20.5	24.0
Involution melancholia	34.6	43.3	16.4	20.3	18.2	23.0
Dementia præcox	30.9	39.1	2.0	4.9	28.9	34.2
Paranoia or paranoid con- ditions	44.7	39.8	4.3	8.3	40.4	31.5
Epileptic psychoses	28.9	29.6	5.7	7.5	23.2	22.1
Psychoneuroses and neuroses	65.0	69.4	25.8	30.9	39.2	28.5
With psychopathic personality	71.7	63.0	40.7	36.6	31.0	26.4
With mental deficiency	52.2	41.8	26.0	20.0	26.2	21.8
All other psychoses	33.6	44.4	17.3	26.3	16.3	18.1
Total	36.6	42.5	15.1	18.8	21.5	23.7

DEATHS

(See Tables 14 and 15, pages 68 and 72)

The 11,420 patients who died in 71 state hospitals are classified in Table 14 according to psychosis and length of hospital residence. Of these deaths, 1,648, or 14.4 per cent, were in the hospital less than one month; 1,626, or 14.2 per cent, had a hospital residence of from one to three months; 1,221, or 10.7 per cent, from 4 to 7 months; 761, or 6.7 per cent, from 8 to 12 months; 1,966, or 17.2 per cent, from 1 to 2 years; 977, or 8.6 per cent, from 3 to 4 years, and 545, or 4.8 per cent, from 5 to 6 years. Nine hundred seventy-nine, or 8.6 per cent of the patients who died, had been in the hospital for 20 years or over. The duration of hospital life varies greatly in the different psychoses, being longest in the dementia-præcox and paranoid groups, and shortest in the drug and somatic groups.

On account of the acute illness of many patients on admission, the death rate during the first year of hospital life is much higher than in the immediately succeeding years. The per cent distribution of the hospital-life period in the several groups, excluding those without psychosis, is shown in the tabulation on pages 20 and 21. (See also the accompanying chart, page 22.)

Table 15 presents the number of deaths in each hospital for the fiscal year 1920 and the death rates per 1,000 patients under treatment for the years 1910, 1918, and 1920. The general death rate for 1920 in the hospitals studied was 77.8 per 1,000 patients under treatment. The rate among the males was 84.5 and among the females 70.6. In 1910 the death rate for the same group of hospitals was 73.3, and in 1918 it was 85.5. In 1919 the general rate in the state hospitals of 12 states was 93.4. This abnormally high rate was due principally to the influenza epidemic which occurred in many of the hospitals during the fiscal year that ended in 1919.

The death rates in the several hospitals vary greatly. Hospitals that are located in large cities and receive a large

Per Cent Distribution of Hospital Life Periods in the Principal Psychoses

PSYCHOSES	TOTAL		UNDER 1 YEAR		1 - 2 YEARS		3 - 4 YEARS	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Senile	2,245	100.0	1,391	62.0	408	18.2	174	7.8
With cerebral arteriosclerosis	1,070	100.0	784	73.3	150	14.0	67	6.3
General paralysis	1,977	100.0	1,173	59.3	584	29.5	147	7.4
Alcoholic	203	100.0	37	18.2	29	14.3	33	16.3
Manic-depressive	1,332	100.0	521	39.1	174	13.1	106	8.0
Involution melancholia	334	100.0	148	44.3	51	15.3	27	8.1
Dementia praecox	2,290	100.0	332	14.5	279	12.2	230	10.0
Paranoia or paranoid conditions	199	100.0	33	16.6	19	9.5	21	10.6
Epileptic psychoses	476	100.0	91	19.1	91	19.1	73	15.3
Psychoneuroses and neuroses	39	100.0	16	41.0	9	23.1	6	15.4
With psychopathic personality	62	100.0	15	24.2	14	22.6	13	21.0
With mental deficiency	247	100.0	51	20.6	36	14.6	31	12.6
All other psychoses	852	100.0	623	73.1	103	12.1	43	5.0
Total	11,326	100.0	5,215	46.0	1,947	17.2	971	8.6

Per Cent Distribution of Hospital Life Periods in the Principal Psychoses—(Concluded)

PSYCHOSIS	5 - 6 YEARS		7 - 8 YEARS		9 - 10 YEARS		11 YEARS AND OVER	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Senile	79	3.5	48	2.1	34	1.5	111	4.9
With cerebral arteriosclerosis	22	2.1	7	0.7	9	0.8	31	2.9
General paralysis	39	2.0	14	0.7	9	0.5	11	0.6
Alcoholic	25	12.3	17	8.4	13	6.4	49	24.1
Manic-depressive	73	5.5	63	4.7	51	3.8	344	25.8
Involution melancholia	23	6.9	12	3.6	20	6.0	53	15.9
Dementia praecox	166	7.2	145	6.3	116	5.1	1,022	44.6
Paranoia or paranoid conditions	9	4.5	19	9.5	14	7.0	84	42.2
Epileptic psychoses	46	9.7	31	6.5	37	7.8	107	22.5
Psychoneuroses and neuroses	2	5.1	1	2.6	1	2.6	4	10.3
With psychopathic personality	3	4.8	4	6.5	2	3.2	11	17.7
With mental deficiency	29	11.7	15	6.1	15	6.1	70	28.3
All other psychoses	24	2.8	15	1.8	15	1.8	29	3.4
Total	540	4.8	391	3.5	336	3.0	1,926	17.0

PER CENT DISTRIBUTION OF HOSPITAL LIFE PERIODS
OF PATIENTS DYING IN STATE HOSPITALS - 1920

PER CENT
0 10 20 30 40 50

UNDER 1 YEAR		46.0
1 TO 2 YEARS		17.2
3 TO 4 YEARS		8.6
5 TO 6 YEARS		4.8
7 TO 8 YEARS		3.5
9 TO 10 YEARS		3.0
11 TO 12 YEARS		2.4
13 TO 14 YEARS		2.1
15 TO 19 YEARS		3.9
20 YEARS AND OVER		8.6

number of physically ill patients have higher death rates than those situated in smaller cities or rural districts.

The hospitals for the criminal insane have low death rates on account of the small number of elderly patients admitted. The criminal insane average much younger than the civil insane.

The authors regret that comparisons of rates of mental diseases based on general population in the several states cannot be included in this study. It is hoped that complete reports from all of the state hospitals for mental diseases in the United States may be secured in the near future and that a nation-wide summary may be prepared each year. The social significance of mental disease is so great that adequate knowledge of the problem as related to the several states and to the country as a whole is essential.

Table 1. Patients, physicians, and employees of 73 state hospitals for mental diseases in the United States, at the end of the fiscal year 1920

STATE HOSPITAL	Date of opening	Patients excluding paroles	Number of physicians	Number of patients to each physician	EMPLOYEES			Number of patients to each employee	Number of patients to each nurse and attendant
					Nurses and attendants	Others	Total		
Total .....	.....	113,195	517	218.9	8,733	8,087	16,820	6.7	13.0
CALIFORNIA									
Mendocino (Talmage)	1893	1,218	4	304.5	84	64	148	8.2	14.5
COLORADO									
State Hospital (Pueblo)	1879	2,010	5	402.0	107	68	175	11.5	18.8
CONNECTICUT									
State Hospital (Middletown)	1868	2,579	13	198.4	196	193	389	6.6	13.2
INDIANA									
Central (Indianapolis)	1848	1,401	8	175.1	114	116	230	6.1	12.3
Eastern (Richmond)	1890	898	4	224.5	69	51	120	7.5	13.0
Northern (Logansport)	1888	1,006	6	167.7	74	59	133	7.6	13.6
Southeastern (Madison)	1910	1,217	5	243.4	76	76	152	8.0	16.0
IOWA									
Cherokee	1902	1,141	8	142.6	94	96	190	6.0	12.1
Clarinda	1888	1,169	4	292.3	84	58	142	8.2	13.9
Independence	1873	1,108	5	221.6	85	66	151	7.3	13.0
Mount Pleasant	1861	1,133	6	188.8	64	73	137	8.3	17.7
MAINE									
Augusta	1840	1,131	5	226.2	98	108	206	5.5	11.5
Bangor	1901	681	5	136.2	67	87	154	4.4	10.2
MARYLAND									
Spring Grove (Catonsville)	1797	772	4	193.0	53	41	94	8.2	14.6

Table 1. Patients, physicians, and employees of 73 state hospitals for mental diseases in the United States, at the end of the fiscal year 1920—(Continued)

STATE HOSPITAL	Date of opening	Patients excluding paroles	Number of physicians	Number of patients to each physician	EMPLOYEES			Number of patients to each employee	Number of patients to each nurse and attendant
					Nurses and attendants	Others	Total		
MASSACHUSETTS									
Boston	1839	1,763	10	176.3	182	145	327	5.4	9.7
Danvers (Hathorne)	1878	1,567	7	223.9	141	138	279	5.6	11.1
Foxborough	1914	499	4	124.8	49	74	123	4.1	10.2
Gardner	1902	815	4	203.5	70	90	160	5.1	11.6
Grafton (Worcester)	1877	1,385	4	346.3	104	137	241	5.7	13.3
Medfield (Harding)	1896	1,528	8	191.0	156	130	286	5.3	9.8
Northampton	1858	1,219	5	243.8	42	67	109	11.2	29.0
Infirmary (Tewksbury)	1856	690	11	62.7	179	204	383	1.8	3.9
Taunton	1854	1,276	6	212.7	105	104	209	6.1	12.2
Westborough	1886	1,312	6	218.7	129	125	254	5.2	10.2
Worcester	1833	2,020	9	224.4	196	173	369	5.5	10.3
MICHIGAN									
Lonia	1885	533	3	177.7	27	27	54	9.9	19.7
Kalamazoo	1859	2,177	10	217.7	182	178	360	6.0	12.0
Pontiac	1878	1,493	5	298.6	133	101	234	6.4	11.2
NEBRASKA									
Hastings	1889	1,160	5	232.0	107	46	153	7.6	10.8
Lincoln	1873	903	4	225.8	70	42	112	8.1	12.9
NEW HAMPSHIRE									
State Hospital (Concord)	1842	1,316	8	164.5	75	172	247	5.3	17.5
NEW JERSEY									
Morris Plains	1876	2,694	9	299.3	134	206	340	7.9	20.1
Trenton	1848	1,918	15	127.9	113	140	253	7.6	17.0

Table 1. Patients, physicians, and employees of 73 state hospitals for mental diseases in the United States, at the end of the fiscal year 1920—(Continued)

STATE HOSPITAL	Date of opening	Patients excluding paroles	Number of physicians	Number of patients to each physician	EMPLOYEES			Number of patients to each employee	Number of patients to each nurse and attendant
					Nurses and attendants	Others	Total		
NEW YORK									
Binghamton	1881	2,641	10	264.1	270	164	434	6.1	9.8
Brooklyn	1895	1,139	9	126.6	67	124	191	6.0	17.0
Buffalo	1880	2,147	11	194.2	162	196	358	6.0	13.3
Central Islip	1896	5,327	22	242.1	341	289	630	8.5	15.6
Dannemora	1900	520	4	130.0	67	47	114	4.6	7.8
Gowanda Homeopathic (Collins)	1898	1,232	7	176.0	89	92	181	6.8	13.8
Hudson River (Poughkeepsie)	1871	3,442	15	229.5	315	251	566	6.1	10.9
Kings Park	1896	4,283	17	251.9	322	306	628	6.8	13.3
Manhattan (Ward's Island)	1896	5,660	28	202.1	357	374	731	7.7	15.9
Matteawan (Beacon)	1859	860	6	143.3	119	59	178	4.8	7.2
Middletown Homeopathic	1874	2,069	8	258.6	161	171	332	6.2	12.9
Rochester	1891	1,572	9	174.6	153	135	288	5.5	10.3
St. Lawrence (Ogdensburg)	1890	2,227	10	222.7	265	159	424	5.3	8.4
Utica	1843	1,672	12	139.3	137	162	299	5.6	12.2
Willard	1869	2,437	10	243.7	193	239	432	5.6	12.6
NORTH CAROLINA									
State Hospital (Morganton)	1883	1,321	3	440.3	104	96	200	6.6	12.7
Ohio									
Athens	1874	1,280	4	320.0	75	84	159	8.1	17.1
Cleveland	1855	1,735	5	347.0	100	59	159	10.9	17.4
Columbus	1838	1,912	6	318.7	122	111	233	8.2	15.7
Dayton	1855	1,297	4	324.3	98	70	168	7.7	13.2
Lima	1915	844	3	281.3	85	48	133	6.3	9.9
Longview (Cincinnati)	1861	1,482	5	296.4	91	50	141	10.5	16.3
Massillon	1898	1,862	5	372.4	109	51	160	11.6	17.1
Toledo	1888	1,912	5	382.4	114	97	211	9.1	16.8

Table 1. Patients, physicians, and employees of 73 state hospitals for mental diseases in the United States, at the end of the fiscal year 1920—(Concluded)

STATE HOSPITAL	Date of opening	Patients excluding parolees	Number of physicians	Number of patients to each physician	EMPLOYEES			Number of patients to each employee	Number of patients to each nurse and attendant
					Nurses and attendants	Others	Total		
OREGON									
Eastern (Pendleton)	1913	488	3	162.6	27	23	50	9.8	18.1
PENNSYLVANIA									
Harrisburg	1851	1,188	6	198.0	89	78	167	7.1	13.3
Homeopathic (Allentown)	1912	1,151	7	164.4	87	106	193	6.0	13.2
Asylum (Wernersville)	1893	907	3	302.3	68	71	139	6.5	13.3
State Hospital (Danville)	1872	1,710	8	213.8	143	116	259	6.6	12.0
State Hospital (Norristown)	1880	2,895	11	263.2	222	233	455	6.4	13.0
Criminal (Waymart)	1912	501	4	125.2	34	62	96	5.2	14.7
Western (Terrance)	1919	111	1	111.0	13	40	53	2.1	8.5
RHODE ISLAND									
State Hospital (Howard)	1870	1,357	7	193.9	130	52	182	7.5	10.4
SOUTH DAKOTA									
Yankton	1879	1,085	4	271.3	55	81	136	8.0	19.7
TENNESSEE									
Eastern (Bearden)	1886	751	5	150.2	65	43	108	7.0	11.6
Southwestern (San Antonio)	1892	1,917	6	319.5	105	87	192	10.0	18.3
VERMONT									
State Hospital (Waterbury)	1891	724	4	181.0	70	60	130	5.6	10.3
VIRGINIA									
Central (Petersburg)	1869	1,766	6	294.3	108	55	163	10.8	16.4
Southwestern (Marion)	1887	727	4	181.8	57	46	103	7.1	12.8
WASHINGTON									
Western (Fort Steilacoom)	1871	1,312	5	262.4	85	45	130	10.1	15.4

Table 2. Expenditures for maintenance in 72 state hospitals for mental diseases, for the fiscal year 1920, with per capita expenditures in 1918

STATE HOSPITAL	Average daily population 1920	EXPENDITURES FOR MAINTENANCE 1920		Per capita 1918
		Amount	Per capita	
ARIZONA				
State Hospital (Phoenix)	519	\$ 136,179.54	\$262.39	*
CALIFORNIA				
Mendocino (Talmage)	1,158	322,513.22	278.51	\$211.56
COLORADO				
State Hospital (Pueblo)	1,968	439,155.08	223.15	214.47
CONNECTICUT				
State Hospital (Middletown) ..	2,599	853,863.39	328.54	292.59
INDIANA				
Central (Indianapolis)	1,395	545,145.94	390.79	298.74
Eastern (Richmond)	884	249,916.22	282.71	234.96
Northern (Logansport)	967	289,239.66	299.11	252.22
Southeastern (Madison)	1,190	301,698.86	253.53	216.86
IOWA				
Cherokee	1,123	336,161.24	299.34	201.59
Clarinda	1,129	358,845.71	317.84	206.18
Independence	1,102	315,877.35	286.64	210.86
Mount Pleasant	1,130	366,102.39	323.98	207.34
MAINE				
Augusta	1,120	384,172.09	343.01	295.17
Bangor	688	317,937.48	462.12	310.00
MARYLAND				
Spring Grove (Catonsville)....	775	206,680.18	266.68	261.27
MASSACHUSETTS				
Boston†	1,814	854,689.01	471.16	480.98
Danvers (Hathorne)	1,873	588,640.97	314.28	370.41
Gardner	811	315,203.67	388.66	323.71
Grafton (Worcester)	1,478	537,132.09	363.42	338.24
Medfield (Harding)	1,615	593,486.49	367.48	313.88
Northampton	1,008	350,514.01	347.73	312.39
Taunton	1,313	471,537.43	359.13	338.47
Westborough	1,282	556,826.37	434.34	401.11
Worcester	1,914	677,295.88	353.86	318.60
MICHIGAN				
Ionia	522	184,732.00	353.89	272.80
Pontiac	1,497	605,088.84	404.20	285.77
NEBRASKA				
Hastings	1,142	336,876.76	294.99	‡227.90
Lincoln	862	289,131.40	335.42	219.48
NEW HAMPSHIRE				
State Hospital (Concord)	1,304	458,390.71	351.53	305.04
NEW JERSEY				
Morris Plains	2,668	901,948.18	338.06	295.25
Trenton	1,873	619,725.44	330.87	279.13
NEW YORK				
Binghamton	2,700	885,995.52	328.15	260.71
Brooklyn	1,090	396,447.30	363.71	323.56
Buffalo	2,163	667,268.47	308.49	266.44
Central Islip	5,330	1,586,714.96	297.70	249.95

* Data not available. † Includes Psychopathic Department. ‡ Estimated.

Table 2. Expenditures for maintenance in 72 state hospitals for mental diseases, for the fiscal year 1920, with per capita expenditures in 1918—(Concluded)

STATE HOSPITAL	Average daily population 1920	EXPENDITURES FOR MAINTENANCE 1920		Per capita 1918
		Amount	Per capita	
NEW YORK (Concluded)				
Dannemora	525	\$226,569.58	\$431.56	\$335.79
Gowanda Homeopathic (Collins)	1,250	413,616.64	330.89	249.93
Hudson River (Poughkeepsie)	3,423	1,204,486.67	351.88	280.94
Kings Park	4,384	1,381,992.39	315.24	249.08
Manhattan (Ward's Island)	5,427	1,783,048.88	328.55	268.62
Matteawan (Beacon)	903	351,575.45	389.34	302.67
Middletown Homeopathic	2,091	610,786.61	292.10	243.90
Rochester	1,556	565,638.81	363.52	269.59
St. Lawrence (Ogdensburg)	2,215	712,652.98	321.74	256.25
Utica	1,662	565,446.76	340.22	261.99
Willard	2,427	787,372.53	324.42	273.20
NORTH CAROLINA				
State Hospital (Morganton) ...	1,313	370,526.53	282.20	231.50
OHIO				
Athens	1,282	378,725.76	295.42	195.06
Cleveland	1,814	400,648.44	220.86	194.72
Columbus	1,882	472,366.87	250.99	198.27
Dayton	1,210	317,433.79	262.34	204.81
Lima	850	237,844.32	279.82	242.94
Longview (Cincinnati)	1,486	350,515.75	235.88	184.17
Massillon	1,808	409,610.10	226.55	175.64
Toledo	1,855	494,808.74	266.74	226.73
OREGON				
Eastern (Pendleton)	492	121,806.86	247.57	‡215.02
PENNSYLVANIA				
Harrisburg	1,162	336,983.99	290.00	269.02
Homeopathic (Allentown)	1,111	364,372.62	327.97	266.44
Asylum (Wernersville)	913	302,982.39	331.85	208.51
State Hospital (Danville)	1,705	563,949.81	330.76	266.18
State Hospital (Norristown)	2,874	779,844.48	271.34	298.41
Criminal (Waymart)	447	211,071.20	472.20	383.23
Westeru (Torrance)	76	26,885.40	353.76	§
RODE ISLAND				
State Hospital (Howard)	1,376	462,936.79	336.44	257.77
SOUTH CAROLINA				
State Hospital (Columbia) ...	2,180	703,140.86	322.54	237.95
SOUTH DAKOTA				
Yankton	1,112	362,024.83	325.56	242.50
TENNESSEE				
Eastern (Bearden)	740	139,820.27	188.95	200.91
VERMONT				
State Hospital (Waterbury) ...	722	205,751.12	284.97	276.10
VIRGINIA				
Central (Petersburg)	1,725	430,201.32	249.39	176.90
Eastern (Williamsburg)	897	187,736.09	209.29	191.28
Southwestern (Marion)	715	149,587.52	209.21	186.35
WASHINGTON				
Western (Fort Steilacoom) ...	1,362	302,961.44	222.44	‡171.81
Total	110,978	\$34,988,858.44	\$315.28	\$261.79

‡ Estimated.

§ Not open in 1918.

Table 3. Movement of patient population in 77 state hospitals for mental diseases in the United States, for the fiscal year 1920

STATE HOSPITAL	ADMISSIONS						DISCHARGED DURING YEAR					
	First admissions beginning of year			Readmissions admissions at year			Transfers Total received			Discharged As unapproved or unselected or unapproved psychosis		
	On books at beginning of year	On books at end of year	Total receiving treatment year	As recovered	As improved	As unapproved	Total transferred	Transferred psychosis	As improved	As unapproved or unselected or unapproved psychosis	Died	Total books at end of year
ARIZONA State Hospital (Phoenix)	526	202	10.....	212	738	27	70	13	4.....	85	199	539
CALIFORNIA Mendocino (Talmage) ..	1,102	361	47 3	411	1,513	76	49	28	7 9	77	246	1,267
COLORADO State Hospital (Pueblo)	1,926	433	18.....	451	2,377	61	69	23	9.....	205	367	2,010
CONNECTICUT State Hospital (Middle- town)	2,685	344	115 23	482	3,167	76	114	52	11 5	239	497	2,670
INDIANA Central (Indianapolis) ..	1,474	193	37.....	230	1,704	42	89	5.....	.....	106	242	1,462
EASTERN (Richmond) ..	911	111	26.....	137	1,048	34	34	1.....	.....	61	130	918
NORTHERN (Logansport) ..	1,087	163	31.....	194	1,281	17	84	33	2.....	90	226	1,055
SOUTHEASTERN (Madison) ..	1,239	208	46 1	255	1,494	22	70	10.....	1	101	204	1,290
IOWA Cherokee	1,352	219	35 2	256	1,608	62.....	181	.....	6	114	363	1,245
Clarinda	1,362	267	40 11	318	1,680	90	7	3.....	49	119	268	1,412
Independence	1,411	279	37 5	321	1,732	69	16	95	.....	82	108	1,362
Mount Pleasant	1,382	205	40.....	245	1,627	53	4	4.....	10	118	189	1,438
MAINE Augusta	1,198	290	59.....	349	1,547	54	75	26	35 5	123	318	1,229
Bangor	828	217	37 8	262	1,090	46	78	41	5	10	95	815
MARYLAND Spring Grove (Catons- ville)	779	106	48 44	198	977	51	14	38	1	22	79	772
MASSACHUSETTS Boston	1,887	157	45 359	561	2,448	61	95	27	3	23	223	2,016
Bridgewater	837	52	16 2	70	907	9	13	11	1.....	30	64	843

Table 3. Movement of patient population in 77 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

STATE HOSPITAL	ADMISSIONS			DISCHARGED DURING YEAR			Total	On books at end of year	
	First admissions	Readmissions	Transfers	Total received	As recovered	As unimproved or unclassified during year	Transferred	As without psychosists	Defered
MASSACHUSETTS (Concluded)									
Danvers	1,844	463	137	14	614	2,458	51	242	41
Foxborough	515	77	27	17	121	636	8	26	10
Gardner	885	48	8	31	87	972	3	18	9
Grafton (Worcester)	1,907	16	14	50	80	1,987	.....	32	12
Medfield (Harding)	1,604	60	34	95	189	1,793	10	25	5
Northampton	1,216	332	94	2	428	1,644	72	71	40
Infirmary (Tewksbury) ..	722	30	5	24	59	781	.....	16	7
Taunton	1,565	328	74	6	408	1,973	52	124	37
Westborough	1,567	242	99	15	356	1,923	40	189	31
Worcester	1,871	371	119	439	929	2,800	58	148	50
MICHIGAN									
Ionia	506	47	6	9	62	568	5	3	4
Kalamazoo	2,174	548	140	17	705	2,879	56	145	77
Pontiac	1,496	281	105	31	417	1,913	63	84	60
NEBRASKA									
Hastings	1,260	127	37	1	165	1,425	22	21	9
Lincoln	899	255	30	.....	285	1,184	1	64	43
NEW HAMPSHIRE									
State Hospital (Concord)	1,372	268	68	.....	336	1,708	49	66	22
NEW JERSEY									
Morris Plains	2,669	483	110	12	605	3,274	170	126	10
Trenton	2,057	625	125	.....	750	2,807	332	68	30
NEW YORK									
Binghamton	2,794	214	87	14	315	3,109	69	79	14
Brooklyn	1,090	725	169	58	952	2,042	136	123	45
Buffalo	2,392	351	89	18	458	2,850	77	99	22
Central Islip	5,441	1,181	354	115	1,650	7,091	258	361	124

Table 3. Movement of patient population in 77 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

STATE HOSPITAL	ADMISSIONS						DISCHARGED DURING YEAR						On books at end of year	
	First admissions			Readmissions			Total received			As recovered				
	Debtors	Patients	Transfers	Transfers	Readmissions	Debtors	Patients	Transfers	As unimproved or uncorrected during year	As transferred psychosocial	Discharged	Total		
NEW YORK (Concluded)														
Dannemora	530	57	8	.....	65	595	45	10	.....	.....	7	13	75
Gowanda Homeopathic	1,291	179	61	2	242	1,533	71	68	25	7	8	80	259	
(Collins)	3,494	473	144	94	711	4,205	86	145	38	12	24	338	643	
Hudson River	4,775	650	235	51	936	5,711	210	280	59	14	36	315	914	
Kings Park	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,797
Manhattan (Ward's Island)	5,874	1,435	421	159	2,015	7,889	357	401	156	11	213	706	1,844	
Matteawan (Beacon)	892	92	32	3	127	1,019	27	35	8	1	52	36	159	
Middletown Homeopathic	2,184	173	76	11	260	2,444	60	48	22	3	4	130	267	
Rochester	1,708	352	93	13	458	2,166	92	115	14	2	3	168	394	
St. Lawrence (Ogdensburg)	2,260	212	78	42	332	2,592	72	47	15	5	9	162	310	
Utica	1,769	310	58	24	392	2,161	101	56	18	7	6	144	322	
Willard	2,535	318	73	150	541	3,076	89	52	21	2	15	313	492	
NORTH CAROLINA State Hospital (Morganton)	1,564	269	67	1	337	1,901	46	49	10	6	.....	123	234
Ohio	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,667
Athens	1,325	211	42	1	254	1,579	79	62	7	.....	3	146	297
Cleveland	1,896	483	163	2	646	2,542	92	244	56	2	22	255	1,282	
Columbus	1,999	494	99	2	595	2,594	97	125	71	.....	15	221	671
Dayton	1,280	326	53	1	380	1,660	35	148	19	.....	1	160	363
Lima	865	50	1	38	89	954	22	10	2	4	40	78	876	
Longview (Cincinnati)	1,481	343	72	.....	415	1,896	12	78	18	1	11	212	332
Massillon	1,907	519	108	.....	627	2,534	168	173	6	10	167	524	2,010
Toledo	1,965	468	126	1	595	2,560	139	173	60	.....	234	606	1,954
OREGON Eastern (Pendleton)	498	84	23	.....	107	605	27	8	4	.....	53	92	513

Table 3. Movement of patient population in 77 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Concluded)

STATE HOSPITAL		ADMISSIONS		DISCHARGED DURING YEAR			
On books at beginning of year	On books at end of year	Total admissions	Readmissions	Total received	Transferred	Total under treatment during year	
PENNSYLVANIA							
Harrisburg (Allentown)	1,281	228	37	22	287	1,568	1,296
Homeopathic (Allentown)	1,179	296	58	13	367	1,546	1,247
Asylum (Wernersville)	941	286	28	18	18	959	913
State Hospital (Danville)	1,726	446	34	83	563	3,571	1,737
State Hospital (Norristown)	3,008	58	62	120	120	563	3,176
Criminal (Waymart)	443	120	120	120	120	120	518
Western (Torrance)	.....	.....	.....	.....	.....	.....	117
RHODE ISLAND							
State Hospital (Howard)	1,688	335	54	.....	389	2,077	1,658
SOUTH CAROLINA							
State Hospital (Columbia)	2,180	639	175	.....	814	2,994	2,287
SOUTH DAKOTA							
Yankton	1,125	201	9	.....	210	1,335	1,100
TENNESSEE							
Eastern (Bearden)	710	269	108	.....	377	1,087	235
TEXAS							
Southwestern (San Antonio)	2,134	267	63	4	334	2,468	2,136
VERMONT							
State Hospital (Waterbury)	711	154	49	.....	203	914	181
VIRGINIA							
Central (Petersburg)	1,817	411	75	2	486	2,303	1,771
Eastern (Williamsburg)	887	230	53	2	285	1,172	908
Southwestern (Marion)	780	226	60	.....	286	1,066	808
WASHINGTON							
Western (Fort Steilacoom)	1,476	369	32	.....	401	1,877	1,459

Table 4. Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920

STATE HOSPITAL	Total	21,742	48	2,550	1,350	2,219	235	36	34	139	476	103	75
ARIZONA													
State Hospital (Phoenix)	202	.....	25	.....	11	.....	.....	.....	.....	.....	3	1	2
CALIFORNIA	361	.....	13	15	29	6	1	.....	.....	.....	13	1	.....
Mendocino (Talmage)													
COLORADO	433	.....	88	12	75	16	.....	.....	3	1	1	1	.....
CONNECTICUT													
State Hospital (Middletown)	344	1	27	27	19	7	1	.....	5	23	.....	.....	.....
INDIANA													
Central (Indianapolis)	193	.....	11	1	20	6	1	.....	1	.....	.....	.....	.....
Eastern (Richmond)	111	.....	10	2	15	3	.....	.....	2	1	.....	.....	.....
Northern (Logansport)	163	.....	15	13	31	4	1	.....	2	4	.....	.....	.....
Southeastern (Madison)	208	.....	8	41	23	.....	3	.....	2	.....	.....	.....	.....
IOWA													
Cherokee	221*	.....	40	1	8	9	1	1	3	3	3	3	.....
Clarinda	267	2	35	3	23	2	.....	.....	12	9	2	2	.....
Independence	279	.....	38	8	14	1	1	.....	8	2	3	3	.....
Mount Pleasant	205	2	29	6	20	5	.....	.....	.....	6	2	2	.....
MAINE													
Augusta	290	.....	24	27	23	2	.....	.....	3	2	2	2	.....
Bangor	217	.....	19	19	12	.....	.....	.....	2	4	1	1	.....
MARYLAND													1
Spring Grove (Catonsville)	106	.....	21	5	12	.....	.....	1	1	1	1	1	.....
MASSACHUSETTS													
Boston	157	1	44	29	13	1	1	1	1	1	4	4	.....
Bridgewater	52	.....	1	1	1	1	1	1	1	1	9	9	.....

* Includes two transfers.

Table 4. Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

STATE HOSPITAL		Total	Without psychoses	With psychoses	With other somnolent diseases	Manic- depressive diseases	With invalid- ation chloral.	Dementia paranoïd conditions	Epileptic psychoses and neuroses	With psychico- pathic personality	With mental deficiency	Without psychoses houses	Undiag- nostic.	Without psychoses
ARIZONA		State Hospital (Phoenix)	19	34	.....	.....	56	2	3	.....	3	23	.....	20
CALIFORNIA		Mendocino (Talmage)	6	59	1	124	1	6	12	33	30	1	1	10
COLORADO		State Hospital (Pueblo)	1	49	10	90	9	31	3	3	5	5	5	31
CONNECTICUT		State Hospital (Middletown)	18	28	11	113	10	7	5	6	12	9	9	15
INDIANA		Central (Indianapolis)	10	43	10	66	6	2	7	4	5	5	5	5
		Eastern (Richmond)	4	41	6	23	2	2	2	1	1	4	4	4
		Northern (Logansport)	5	16	12	36	2	8	2	6	6	6	6	6
		Southeastern (Madison)	5	40	3	52	1	7	2	2	14	14	14	14
IOWA		Cherokee	5	35	1	70	3	8	1	9	12	7	7	4
		Clarinda	7	66	26	50	4	7	10	4	5	5	5	5
		Independence	18	54	16	93	1	3	11	1	1	1	1	1
		Mount Pleasant	37	10	71	1	8	1	1	1	1	5	5	1
MAINE		Augusta	9	57	7	37	12	15	14	14	14	8	8	34
		Bangor	8	16	8	26	4	10	9	2	5	11	11	61
MARYLAND		Spring Grove (Catonsville)	24	1	26	1	3	1	1	1	1	5	5	3
MASSACHUSETTS		Boston	6	11	2	21	13	2	16	2	1	4	3	3
		Bridgewater	5	5	5	16	16	16	16	16	16	2	2	11

Table 4. Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

STATE HOSPITAL	TOTAL	Senile dementia	General paraphysias	With herpes simplex	With Huntington's chorea	With other brain disorders	With other neurotic conditions	With other psychosis	With general cerebral sclerosis	With general cerebral atrophy	With other neurotic disorders	With other drugs and toxins	With alcoholism	With other drugs and toxins	With alcoholism	With other drugs and toxins	With alcoholism
MASSACHUSETTS (Concluded)																	
Danvers (Hathorne)	463	1	58	43	2	4	5	23	6	2							
Foxborough	77	1	3	2	1	1	1	5	5	1							
Gardner	48	10	5	3	1	1	1	1	1	1							
Grafton (Worcester)	16																
Medfield (Harding)	60		8	1	4	5	1	1	3	3							
Northampton	332		33	24	14	5	1	7	7	23							
Infirmary (Tewksbury)	30		11	30	4	1	1	1	1	1							
Taunton	328	1	55	30	35	1	1	1	1	1							
Westborough	242		29	27	11	1	1	1	1	1							
Worcester	371	1	33	76	34	2	1	1	1	1							
MICHIGAN																	
Ionia	47		1	18	2	1	1	1	1	1							
Pontiac	281	2	34	41	6	1	1	1	1	1							
NEBRASKA																	
Hastings	127	1	24	2	3	5	5	5	5	5							
Lincoln	255		43	1	44	1	1	1	1	1							
NEW HAMPSHIRE																	
State Hospital (Concord)	268	1	50	29	20	4	4	4	4	4							
NEW JERSEY																	
Morris Plains	483	1	53	14	45	1	1	4	4	4							
Trenton	625	3	45	46	46	1	1	1	1	1							
NEW YORK																	
Binghamton	214		32	24	25	4	1	1	1	1							
Brooklyn	725	3	137	112	66	1	1	1	1	1							
Buffalo	351	1	24	29	43	5	3	3	3	3							

Table 4. Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

Table 4. Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

STATE HOSPITAL	Total	Trau. matic	Senile	With general paralytic senility	With cerebral syphilis	With Huntingt. on's chorea	With brain tumor	With other brain diseases	Alcoholic	Due to drugs and other toxins	With pellagra
NEW YORK (Concluded)											
Central Islip	4	77	34	188	4	1	5	4	17	3	...
Dannemora	57	1	14	5	30	3	1	1	2	...	...
Gowanda Homeopathic (Collins)	179	1	53	81	40	3	3	1	3	1	...
Hudson River (Poughkeepsie)	473	1	17	15	87	4	2	2	1	6	1
Kings Park	650	1	113	113	211	19	8	14	12	1	...
Manhattan (Ward's Island)	1,435	3	4	12	11	1	1	1	29	3	...
Matteawan (Beacon)	92	1	23	12	14	2	1	1	19	2	...
Middletown Homeopathic	173	3	49	26	25	1	1	1	2	...	...
Rochester	352	1	26	13	15	3	2	2	3	1	...
St. Lawrence (Ogdensburg)	212	1	43	17	32	3	3	1	4	5	1
Utica	310	1	38	32	37	2	3	1	2	5	1
Willard	318	1	28	12	3	1	1	1	10	1	1
North Carolina State Hospital (Morganton)	269	1	46	3	24	1	1	1	1	1	...
OHIO	211	1	42	23	103	8	1	1	4	2	1
Athens	483	1	84	47	84	2	1	1	14	...	...
Cleveland	494	1	64	8	46	4	1	1	3	4	...
Columbus	326	1	64	3	1	1	1	1	6	6	...
Dayton	50	1	64	12	40	8	1	1	2	...	...
Lima	343	1	44	30	89	5	2	3	10	5	...
Longview (Cincinnati)	519	1	75	33	49	5	4	3	19	8	2
Massillon	468	1	17	4	5	1	1	1	1	1	...
Toledo	84	1	17	4	5	1	1	1	1	1	...
OREGON	Eastern (Pendleton)	...	...	...	...	...	...	...	...	...	...

Table 4. *Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)*

Table 4. Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Continued)

STATE HOSPITAL	Total	Senile	General	With cerebral arteriosclerosis	With cerebral syphilis	With Huntington's chorea	With brain tumors	With brain tumors	With nervous diseases or neurosis	Alcoholistic	Due to drugs and other toxicants	With penicillin
PENNSYLVANIA												
Harrisburg	228	.....	23	8	35	.....	.....	1	5	1	.....	.....
Homeopathic (Allentown)	296	.....	28	19	29	.....	.....	1	9	3	.....	.....
State Hospital (Danville)	286	1	42	9	16	2	.....	1	2	.....	.....	.....
RHODE ISLAND												
State Hospital (Howard)	335	1	25	37	29	19	.....	1	14	4	.....	.....
SOUTH CAROLINA												
State Hospital (Columbia)	639	.....	88	34	22	2	2	1	5	.....	19	.....
SOUTH DAKOTA												
Yankton	201	.....	29	2	5	1	2	1	2	.....	.....	.....
TENNESSEE												
Eastern (Bearden)	269	.....	39	.....	3	3	.....	.....	2	8	28	.....
TEXAS												
Southwestern (San Antonio)	267	1	32	.....	26	4	2	.....	5	.....	4	.....
VERMONT												
State Hospital (Waterbury)	154	1	19	11	7	.....	.....	.....	2	1	.....	.....
VIRGINIA												
Central (Petersburg)	411	2	61	5	8	9	.....	1	5	3	2	.....
Eastern (Williamsburg)	230	.....	30	2	8	3	.....	4	4	12	6	.....
Southwestern (Marion)	226	1	17	1	4	4	1	2	4	1	4	.....
WASHINGTON												
Western (Fort Steilacoom)	369	1	54	9	34	9	1	.....	3	1	.....	.....

Table 4. *Psychoses of first admissions to 72 state hospitals for mental diseases in the United States, for the fiscal year 1920—(Concluded)*

STATE HOSPITAL	Vitreous other of somatic diseases	Manic- depressive	Involuntion	Manic- depressive	Dementia or paranoia	Psychotic conditions	Psychotic neuroses and neurotic	With psychotic personality	Without mental decrepitude	Undis- tingui- shed psychoses	With- out psychotic personality	Without psychotic personality
PENNSYLVANIA												
Harrisburg	6	51	2	45	2	9	6	2	15	8	9	
Homeopathic (Allentown)	8	50	8	82	1	14	7	1	10	21	6	
State Hospital (Danville)	4	68	14	79	....	12	2	24	4	3	3	
RHODE ISLAND												
State Hospital (Howard)	5	21	....	118	1	13	8	1	8	18	12	
SOUTH CAROLINA												
State Hospital (Columbia)	21	39	5	272	1	29	8	....	19	10	62	
SOUTH DAKOTA												
Yankton	11	49	12	62	4	4	10	1	1	1	....	5
TENNESSEE												
Eastern (Bearden)	7	70	10	44	11	10	3	1	8	15	7	
TEXAS												
Southwestern (San Antonio)	14	64	9	64	3	2	1	6	16	6	8	
VERMONT												
State Hospital (Waterbury)	10	19	3	26	4	15	3	1	11	4	7	
VIRGINIA												
Central (Petersburg)	26	114	....	83	21	31	2	1	26	3	8	
Eastern (Williamsburg)	10	61	....	33	5	6	10	4	7	4	21	
Southwestern (Marion)	16	61	3	29	1	7	12	6	17	1	34	
WASHINGTON												
Western (Fort Steilacoom) . . . . .	....	127	16	77	5	5	3	4	9	....	11	

Table 5. Nativitv of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920

STATE HOSPITAL	COUNTRY OF BIRTH										
	Total	United States	United Kingdom	Austria	Belgium	Böhemia	Canada	Czechoslovakia	Denmark	England	Finland	France
Total	21,104	14,006	597	24	37	562	47	71	390	72	83
ARIZONA											
State Hospital (Phoenix)	202	123	1	1	.....	.....	.....	.....	5	1	2
CALIFORNIA											
Mendozino (Talmage)	361	250	2	.....	1	5	.....	7	3	3	4
COLORADO											
State Hospital (Pueblo)	433	296	13	1	.....	3	.....	5	11	.....	1
CONNECTICUT											
State Hospital (Middletown)	344	197	14	.....	.....	3	.....	2	6	2	2
INDIANA											
Central (Indianapolis)	193	177	2	.....	.....	.....	.....	.....	.....	.....	3
Eastern (Richmond)	111	110	.....	1	.....	.....	.....	.....	1	.....	.....
Northern (Logansport)											
Southeastern (Madison)											
IOWA											
Cherokee	221*	156	2	1	.....	6	.....	5	5	.....	1
Clarinda	267	235	.....	4	.....	10	2	.....	6	3	.....
Independence	279	206	1	.....	.....	.....	.....	3	4	1	.....
Mount Pleasant	205	150	.....	.....	.....	.....	.....	.....	3	3	.....
MAINE											
Augusta	290	234	1	.....	.....	27	.....	5	1	1	.....
Bangor	217	175	.....	.....	.....	20	.....	7	1	.....	.....
MARYLAND											
Spring Grove (Catonsville)	106	76	2	.....	2	.....	.....	2	.....	2	.....

* Includes two transfers.

Table 5. *Nativity of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)*

STATE HOSPITAL	COUNTRY OF BIRTH											
	Germany	Greece	Holland	Hungary	Ireland	Mexico	Norway	Poland	Portugal	Romania		
Total	773	89	1	33	277	869	847	163	88	321	28	53
ARIZONA												
State Hospital (Phoenix)	1	1	.....	.....	2	.....	47	1	2	.....	.....
CALIFORNIA												
Mendocino (Talmage)	13	2	1	.....	5	19	4	5	1	1	1
COLORADO												
State Hospital (Pueblo)	10	1	1	2	7	8	11	4	3	.....	1
CONNECTICUT												
State Hospital (Middletown)	13	1	.....	1	19	22	.....	.....	24	1	.....
INDIANA												
Central (Indianapolis)	1	1	.....	.....	1	1	.....	.....	1	.....	1
Eastern (Richmond)	1	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Northern (Logansport)	8	3	.....	5	1	5	2	.....	1	.....	1
Southeastern (Madison) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
IOWA												
Cherokee	13	2	2	.....	1	.....	1	.....	8	.....	.....
Clarinda	5	1	.....	.....	1	.....	1	.....	1	.....	3
Independence	20	2	.....	.....	3	1	.....	1	.....	.....	.....
Mount Pleasant	41	2	.....	.....	1	.....	4	1	2	.....	2
MAINE												
Augusta .....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	1
Bangor .....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
MARYLAND												
Spring Grove (Catonsville)	12	.....	.....	.....	.....	6	3	.....	.....	.....	.....

Table 5. *Nativity of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)*

STATE HOSPITAL	COUNTRY OF BIRTH										ALIENS		
	Russia	Scotland	Spain	Sweden	Switzerland	Turkey	West Indies	Other countries	Unascert.	Number	Per cent		
Total	733	105	37	198	50	58	83	214	196	3	6	47	23.3
ARIZONA													
State Hospital (Phoenix)	1	2	1	.....	2	.....	.....	.....	.....	3	6	47	23.3
CALIFORNIA													
Mendocino (Talmage)	6	2	1	9	5	1	.....	10	.....	106	29.4	.....	.....
COLORADO													
State Hospital (Pueblo)	6	3	.....	14	1	1	.....	1	29	.....	.....	.....	.....
CONNECTICUT													
State Hospital (Middletown)	12	3	.....	7	.....	.....	.....	12	3	76	22.1	.....	.....
INDIANA													
Central (Indianapolis)	2	2	.....	.....	.....	.....	.....	1	3	.....	.....	.....	.....
Eastern (Richmond) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Northern (Logansport)	1	.....	2	.....	.....	.....	.....	1	2	20	12.3	.....	.....
Southeastern (Madison) IOWA													
Cherokee	3	1	.....	9	.....	.....	.....	1	5	12	5.5	.....	.....
Clarinda	1	2	.....	4	.....	.....	.....	1	7	1	0.4	.....	.....
Independence .....	.....	1	.....	1	2	.....	.....	3	12	61	21.9	.....	.....
Mount Pleasant	1	.....	.....	.....	.....	.....	.....	2	3	25	12.2	.....	.....
MAINE													
Augusta	5	.....	.....	1	.....	.....	1	2	4	5	1.7	.....	.....
Bangor	4	.....	.....	1	.....	.....	1	2	6	24	11.1	.....	.....
MARYLAND													
Spring Grove (Catonsville)	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Table 5. Nativitv of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

STATE HOSPITAL	COUNTRY OF BIRTH									
	Total	United States	Australia	Belgium	Bohemia	Canada	Czechoslovakia	Denmark	Finland	France
MASSACHUSETTS										
Boston	157	79	2			20			3	
Bridgewater	52	33	2			54	1	12	2	
Danvers (Hathorne)	463	257	2	2		1		1	5	1
Foxborough	77	48				5		2		
Gardner	48	28	1			2		1		
Grafton (Worcester)	16	10				6				
Medfield (Harding)	60	30	1			29	1	3		1
Northampton	332	200	11			2				
Infirmary (Tewksbury)	30	15	1			30				
Taunton	328	188		1		23	1	10	4	
Westborough	242	150	1			43		9	6	
Worcester	371	173	2							1
MICHIGAN										
Ionia	47	31				2			9	
Pontiac	281	181	9			34	1			1
NEBRASKA										
Hastings	127	92	1			1		2	1	
Lincoln	255	156	8			6	19	2	4	
NEW HAMPSHIRE										
State Hospital (Concord)	268	186			1		42		6	4
NEW JERSEY										
Morris Plains	483	254	28	2	3	2		14		4
Trenton	625	420	24	1		6	2	9		1

Table 5. *Nativity of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)*

STATE HOSPITAL	COUNTRY OF BIRTH										
	Germany	Greece	Holland	Hungary	Ireland	Italy	Mexico	Norway	Poland	Portugal	Roumania
MASSACHUSETTS											
Boston	2	1	1	1	30	4	2	10	2	2	2
Bridgewater	1	6	2	42	2	7	17	2	1	1	1
Danvers (Hathorne)	8	6	2	3	4	6	3	1	1	1	1
Foxborough				2	1	1	1				
Gardner				4	2	2	1				
Grafton (Worcester)	1	1	1	27	12	12	14				
Medfield (Harding)	7	1	1	4	4	3	1				
Northampton	2	1	1	1	17	10	10				
Infirmary (Tewksbury)				24	6	6	4				
Taunton	2	1	1	44	12	12	1				
Westborough							1				
Worcester	8	3	1				8				
Michigan											
Ionia		1	1	1	1	1	1			3	3
Pontiac	14	1	1	4	3	4	4			5	5
NEBRASKA											
Hastings	9			5	5	6	2	1	1	3	3
Lincoln	13					8	4	4	4	4	4
NEW HAMPSHIRE											
State Hospital (Concord)	1										4
NEW JERSEY											
Morris Plains	32	2	3	10	28	30	1	1	1	23	23
Trenton	26	1	1	35	20	30	1	1	1	14	14

Table 5. Nativitv of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

STATE HOSPITAL	COUNTRY OF BIRTH							ALIENS		
	Russia	Scotland	Spain	Sweden	Switzerland	Turkey	West Indies	Other countries	Number	Per cent
MASSACHUSETTS										
Boston	7	1	.....	2	.....	2	0	.....	38	24.2
Bridgewater	3	5	.....	9	3	1	6	2	13	25.0
Danvers (Hathorne)	21	1	.....	3	.....	1	3	.....	74	16.0
Foxborough	2	1	.....	.....	.....	.....	2	1	12	15.6
Gardner	2	1	.....	.....	.....	.....	2	1	3	6.2
Grafton (Worcester)	4	1	.....	4	.....	1	5	.....	6	37.5
Medfield (Harding)	16	5	.....	1	.....	1	5	.....	25	41.7
Northampton Infirmary (Tewksbury)	2	5	.....	1	.....	1	.....	.....	57	17.2
Taunton	7	5	.....	7	.....	3	1	26	8	26.7
Westborough	5	2	.....	8	.....	10	2	1	64	19.5
Worcester	25	3	.....	11	.....	10	2	3	5	53
MICHIGAN										
Ionia	3	1	.....	.....	.....	1	.....	1	.....	13
Pontiac	8	3	.....	.....	.....	1	.....	.....	3	27.7
NEBRASKA										
Hastings	4	1	.....	4	1	.....	4	5	11	8.7
Lincoln	8	2	.....	7	.....	.....	3	.....	3	**
NEW HAMPSHIRE										
State Hospital (Concord)	4	2	.....	1	.....	.....	.....	.....	5	22
NEW JERSEY										
Morris Plains	22	5	.....	4	2	1	1	7	4	88
Trenton	22	2	.....	2	1	2	4	.....	4	18.2

** Data not available.

Table 5. Nativitv of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

	STATE HOSPITAL	COUNTRY OF BIRTH									
		Total	United States	Austria	Belgium	Bohemian	Canada	Czechoslovakia	Denmark	England	Finland	France
NEW YORK											
Binghamton	214	183	3	23	1	...	1	2	...	6	...
Brooklyn	725	330	7	1	...	3	3	...	22	1	2
Buffalo	351	197	4	4	...	17	11	...	12	1	...
Central Islip	1,181	487	86	4	...	18	11	4	27	4	14
Dannemora	57	28	2	...	...	1	...	...	...	...	...
Gowanda Homeopathic (Collins)	179	114	10	...	...	5	...	1	...	...	...
Hudson River (Poughkeepsie)	473	342	4	...	...	6	...	1	...	...	...
Kings Park	650	346	22	...	...	3	...	2	...	...	...
Manhattan (Ward's Island)	1,435	537	100	1	...	11	11	7	23	8	29
Matteawan (Beacon)	92	37	6	...	...	...	...	1	...	...	...
Middletown Homeopathic	173	136	2	...	...	...	...	1	...	...	...
Rochester	352	257	6	1	...	6	...	1	...	...	...
St. Lawrence (Ogdensburg)	212	159	2	...	...	23	...	1	...	...	...
Utica	310	237	4	...	...	4	...	1	...	...	...
Willard	318	252	7	...	...	6	...	1	...	...	...
NORTH CAROLINA											
State Hospital (Morganton)	269	267	...	...	...	...	...	...	...	2	...
Ohio											
Athens	211†	205	1	...	1	1	...	...	...	1	...
Cleveland	483	237	51	1	14	7	...	...	...	6	...
Columbus	494	435	12	...	...	6	...	...	...	1	...
Dayton	327†	285	...	...	...	...	...	...	...	4	...
Lima	50	40	1	...	...	...	...	...	...	1	...
Longview (Cincinnati)	343	272	1	...	...	...	...	...	...	2	3

† Includes one transfer.

Table 5. Nativity of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

Table 5. Nativitv of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

STATE HOSPITAL	COUNTRY OF BIRTH							ALIENS			
	Russia	Scotlnd	Spain	Sweden	Switzerland	Turkey	West Indies	Other countries	Native	Number	Per cent
NEW YORK											
Binghamton	3	4	4	8	3	3	5	1	6	17	7.9
Brooklyn	76	2	2	2	6	3	1	4	3	172	23.7
Buffalo	106	4	7	12	6	3	22	19	2	67	19.1
Central Islip	6	2	1	8	.....	.....	.....	1	.....	430	36.4
Dannemora	4	2	2	5	3	2	7	7	2	.....	21
Gowanda Homeopathic (Collins)	6	3	1	2	.....	.....	.....	.....	1	.....	36.8
Hudson River (Poughkeepsie)	76	4	2	5	3	2	7	7	2	1	24
Kings Park	120	12	9	15	7	14	26	18	6	1	51
Manhattan (Ward's Island)	6	.....	2	.....	1	.....	5	3	.....	184	10.8
Matteawan (Beacon)	3	1	1	.....	1	.....	1	1	.....	28.3	
Middletown Homeopathic	8	3	1	.....	1	.....	1	1	.....	560	39.0
Rochester	1	2	1	.....	1	.....	1	1	.....	41	44.6
St. Lawrence (Ogdensburg)	6	.....	1	1	1	1	1	4	1	1	9
Utica	2	.....	1	1	1	1	1	1	1	.....	43
Willard	.....	.....	.....	.....	.....	.....	.....	.....	1	26	12.2
NORTH CAROLINA											
State Hospital (Morganton)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio											
Athens	32	2	.....	3	1	1	.....	7	2	2	0.9
Cleveland	2	.....	.....	.....	1	.....	.....	4	6	225	46.6
Columbus	2	.....	.....	.....	1	.....	.....	1	9	7	1.4
Dayton	2	.....	.....	.....	1	.....	.....	1	8	.....	2.4
Lima	11	1	1	1	1	1	1	2	1	9	18.0
Longview (Cincinnati)	11	1	1	1	1	1	1	1	3	1	.....

Table 5. Nativitv of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

STATE HOSPITAL	COUNTRY OF BIRTH									Prancee
	Total	United States	Austria	Belgium	Bohemia	Canada	Czechoslo- vakia	Denmark	England	
OHIO (Concluded)										
Massillon	519	338	43	3	2	4	...	...	11	8
Toledo	468	398	...	1	6	...	...	...	3	2
OREGON										
Eastern (Pendleton)	84	60	2	...	...	...	1	1	1	...
PENNSYLVANIA										
Harrisburg	228	198	3	...	...	1	...	...	1	...
Homeopathic (Allentown)	296	237	13	...	...	1	...	...	2	...
State Hospital (Danville)	286	232	16	...	...	1	...	...	1	...
RHODE ISLAND										
State Hospital (Howard)	335	181	6	...	...	23	...	...	27	2
SOUTH DAKOTA										
Yankton	201	138	4	...	3	3	4	3	2	...
TENNESSEE										
Eastern (Bearden)	269	266	...	...	...	...	...	...	...	...
TEXAS										
Southwestern (San Antonio)	267	157	1	...	1	...	...	...	3	...
VERMONT										
State Hospital (Waterbury)	154	129	...	...	...	12	...	...	1	...
VIRGINIA										
Central (Petersburg)	411	407	...	...	...	1	...	...	...	...
Eastern (Williamsburg)	230	199	1	...	...	1	...	...	1	...
Southwestern (Marion)	226	222	...	...	...	...	...	...	...	1
WASHINGTON										
Western (Fort Steilacoom)	369	224	13	1	...	19	...	3	9	13

Table 5. Nativity of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Continued)

Table 5. *Nativity of first admissions to 71 state hospitals for mental diseases, and aliens among first admissions, for the fiscal year 1920—(Concluded)*

STATE HOSPITAL	COUNTRY OF BIRTH							ALIENS			
	Russia	Scotland	Spain	Sweden	Switzerland	Turkey	West Indies	Other countries	Unascered	Number	Per cent
Ohio (Concluded)											
Massillon	9	2	.....	3	4	1	.....	4	1	126	24.3
Toledo	3	1	.....	2	.....	.....	.....	5	4	6	1.3
OREGON											
Eastern (Pendleton)	1	.....	1	1	1	.....	.....	3	8	.....	.....
PENNSYLVANIA											
Harrisburg	2	.....	2	1	.....	1	.....	3	5	16	7.0
Homeopathic (Allentown)	3	2	.....	.....	.....	.....	.....	2	.....	32	11.2
State Hospital (Danville)	4	.....	.....	.....	.....	.....	.....	2	.....	13	4.5
RHODE ISLAND											
State Hospital (Howard)	8	5	.....	6	.....	4	.....	1	2	93	27.8
SOUTH DAKOTA											
Yankton	3	.....	.....	5	1	.....	.....	2	4	3	1.5
TENNESSEE											
Eastern (Bearden)	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	84
TEXAS										2	6
Southwestern (San Antonio)	3	.....	.....	.....	.....	.....	.....	.....	.....	2	3.9
VERMONT											
State Hospital (Waterbury)	1	.....	1	.....	.....	.....	.....	2	1	.....	4
VIRGINIA											
Central (Petersburg)	7	.....	.....	.....	.....	.....	.....	1	2	10	1.0
Eastern (Williamsburg)	.....	.....	.....	.....	.....	.....	.....	2	2	1	4.3
Southwestern (Marion)	.....	.....	.....	.....	.....	.....	.....	2	2	1	0.4
WASHINGTON											
Western (Fort Steilacoom)	9	1	.....	15	1	.....	.....	6	15	56	15.2

Table 6. Age of first admissions to 70 state hospitals for mental diseases classified with reference to principal psychoses, for the fiscal year 1920

PSYCHOSES	TOTAL			UNDER 15 YEARS			15-19 YEARS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	45	2	47						
Senile	1,177	1,292	2,469						
With cerebral arteriosclerosis	809	532	1,341						
General paralysis	1,794	380	2,174	2		2	1	4	6
With cerebral syphilis	145	81	226	1		1			
With Huntington's chorea	15	20	35						
With brain tumor	20	14	34						
With other brain or nervous diseases	90	49	139	1		1	2	1	3
Alcoholic	407	63	470						
Due to drugs and other exogenous toxins	50	51	101						
With pellagra	24	58	82						
With other somatic diseases	260	383	643						
Manic-depressive	1,370	1,898	3,268	3		3	2	2	2
Involution melancholia	186	425	611						
Dementia praecox	3,116	2,509	5,625	10		6	16	254	151
Paranoia or paranoid conditions	242	251	493						
Epileptic psychoses	335	217	552	11		5	16	30	1
Psychoneuroses and neuroses	173	259	432	1		1	2	6	23
With psychopathic personality	292	193	485	3		2	5	41	21
With mental deficiency	364	284	648	16		9	25	58	27
Undiagnosed psychoses	301	294	595	1		1	2	17	91
Without psychosis	473	226	699	14		21	35	49	12
Total	11,688	9,481	21,169	63	55	118	553	397	950

Table 6. Age of first admissions to 70 state hospitals for mental diseases classified with reference to principal psychoses, for the fiscal year 1920—(Continued)

PSYCHOSES	20—24 YEARS			25—29 YEARS			30—34 YEARS			35—39 YEARS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	2	.....	2	4	.....	4	7	.....	7	7	.....	7
Senile	3	2	5	3	1	4	4	3	7	9	6	15
With cerebral arteriosclerosis	11	8	19	65	20	85	190	38	228	366	73	439
General paralysis	5	2	7	9	6	15	15	12	27	23	8	31
With cerebral syphilis .....	.....	.....	.....	1	1	2	.....	1	1	1	1	3
With Huntington's chorea	1	1	2	1	2	3	.....	1	1	1	1	4
With brain tumor	6	2	8	5	4	9	11	3	14	5	2	7
With other brain or nervous diseases	1	1	10	25	2	27	38	10	48	74	7	81
Alcoholic	9	4	10	6	5	11	2	7	9	11	6	17
Due to drugs and other exogenous toxins	6	4	10	6	7	13	2	8	10	2	13	15
With Pellagra .....	.....	3	3	.....	7	7	.....	8	10	2	13	15
With other somatic diseases	22	41	63	26	56	82	24	71	95	29	51	80
Manic-depressive	132	173	305	174	278	452	200	294	494	183	295	478
Involution melancholia .....	.....	.....	.....	2	2	2	2	4	6	1	8	9
Dementia praecox	686	355	1,041	774	446	1,220	557	438	995	399	391	790
Paranoia or paranoid conditions	1	1	2	15	8	23	31	17	48	43	30	73
Epileptic psychoses	62	36	98	47	36	83	44	23	67	39	22	61
Psychomotor and neuroses	29	21	50	36	28	64	21	41	62	17	38	55
With psychopathic personality	54	29	83	51	25	76	35	25	60	37	32	69
With mental deficiency	76	28	104	56	41	97	31	31	62	32	43	75
Undiagnosed psychoses	19	16	35	37	31	68	26	38	64	35	33	68
Without psychosis	79	29	108	70	28	98	45	28	73	50	26	76
Total	1,203	754	1,957	1,404	1,027	2,431	1,286	1,092	2,378	1,365	1,088	2,453

Table 6. Age of first admissions to 70 state hospitals for mental diseases classified with reference to principal psychoses, for the fiscal year 1920—(Continued)

PSYCHOSES	40—44 YEARS			45—49 YEARS			50—54 YEARS			55—59 YEARS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	3	1	4	1	1	2	5	1	5	5	5	5
Senile	....	2	5	16	9	25	41	12	26	42	49	40
With cerebral arteriosclerosis	3	2	5	297	61	358	207	52	129	108	77	77
General paralysis	70	413	583	23	11	34	22	13	53	260	166	28
With cerebral syphilis	19	16	35	4	4	6	3	1	4	3	3	3
With Huntington's chorea	2	2	4	8	2	10	3	5	5	2	1	3
With brain tumor	4	4	8	13	11	24	19	12	4	16	11	1
With other brain or nervous diseases	6	7	13	11	8	19	12	4	4	11	1	12
Alcoholic	62	11	73	57	15	72	53	10	63	41	3	44
Due to drugs and other exogenous toxins	4	11	15	4	6	10	7	5	12	5	4	9
With pellagra	3	6	9	5	10	15	3	4	7	1	1	2
With other somatic diseases	27	49	76	33	24	57	20	28	48	28	18	46
Manic-depressive	157	219	376	144	200	344	129	146	275	71	84	155
Involution melancholia	11	56	67	33	100	133	33	113	146	50	72	122
Dementia praecox	201	277	478	114	196	310	54	129	183	24	65	89
Paranoia or paranoid conditions	40	50	90	33	42	75	35	40	75	16	24	40
Epileptic psychoses	26	20	46	20	13	33	15	15	30	12	8	20
Psychoneuroses and neuroses	13	44	57	21	23	44	15	17	32	5	14	19
With psychopathic personality	20	19	39	21	16	37	11	12	23	9	3	12
With mental deficiency	26	25	51	26	25	51	19	21	40	7	11	18
Undiagnosed psychoses	40	38	78	43	40	83	31	30	61	19	20	39
Without psychosis	44	13	57	37	18	55	25	18	43	17	6	23
Total	1,054	942	1,996	946	847	1,793	797	737	1,534	659	489	1,148

Table 6. Age of first admissions to 70 state hospitals for mental diseases classified with reference to principal psychoses, for the fiscal year 1920—(Concluded)

PSYCHOSSES		60—64 YEARS			65—69 YEARS			70 YEARS AND OVER			UNASCERTAINED		
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	4	134	148	282	232	199	431	730	863	1,593	13	5	18
Senile		164	124	288	180	81	261	240	156	396	1	3	4
With cerebral arteriosclerosis		87	20	107	39	6	45	9	7	3	8	1	9
General paralysis		7	5	12	7	2	1	3	1	1	3	2	3
With cerebral syphilis		1	1	2	2	1	3	1	1	1	1	1	1
With Huntington's chorea		1	1	2	1	1	2	1	1	2	1	1	1
With brain tumor		11	9	20	5	6	11	3	2	5	1	1	1
With other brain or nervous diseases		23	3	26	12	1	13	10	10	10	3	3	3
Alcoholic	4	2	6	6	1	1	2	5	5	4	9	1	1
Due to drugs and other exogenous toxins		22	15	37	12	11	23	5	4	9	20	5	6
With pellagra		58	67	125	23	34	57	12	8	20	5	6	11
With other somatic diseases		37	46	83	17	21	38	21	3	5	11	19	3
Manic-depressive		17	29	46	5	14	19	21	9	11	19	3	22
Involution melancholia		17	21	38	8	10	18	3	7	10	11	2	2
Dementia praecox		9	13	22	10	...	10	8	3	11	2	2	2
Paranoia or paranoid conditions		6	9	15	1	2	3	2	2	3	5	1	1
Epileptic psychoses		4	2	6	3	2	5	2	3	6	10	4	6
Psychoneuroses and neuroses		5	7	12	4	2	6	4	6	15	27	1	6
With psychopathic personality		12	10	22	8	10	18	12	15	10	13	10	10
With mental deficiency		13	3	16	10	5	15	10	3	13	10	10	10
Undiagnosed psychoses													
Without psychosis													
Total	641	337	1,178	588	408	996	2,144	70	23	996	1,059	1,085	93

Table 7. Degree of education of first admissions to 70 state hospitals for mental diseases, classified with reference to principal psychoses, for the fiscal year 1920

PSYCHOSES	TOTAL		ILLITERATE		READS AND WRITES		COMMON SCHOOL		HIGH SCHOOL		COLLEGE		UN- ASCER- TAINED	
	ASCIERTAINED		Number		Per cent		Number		Per cent		Number			
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent		
Traumatic	46	100.0	1	2.2	9	19.6	26	56.5	7	15.2	3	6.5	1	
Senile	2,233	100.0	357	16.0	415	18.6	1,300	58.2	115	5.2	46	2.1	245	
With cerebral arteriosclerosis	1,289	100.0	134	10.4	259	20.1	775	60.1	89	6.9	32	2.5	84	
General paralysis	2,042	100.0	134	6.6	379	18.6	1,268	62.1	197	9.7	64	3.1	126	
With cerebral syphilis	207	100.0	22	10.6	64	30.9	103	49.8	13	6.3	5	2.4	20	
With Huntington's chorea	34	100.0	1	2.9	11	32.4	18	52.9	3	8.8	1	2.9	2	
With brain tumor	36	100.0	4	11.1	7	19.4	19	52.8	4	11.1	2	5.6	1	
With other brain or nervous diseases	138	100.0	7	5.1	24	17.4	88	63.8	13	9.4	6	4.3	7	
Alcoholic	457	100.0	38	8.3	146	31.9	241	52.7	25	5.5	7	1.5	20	
Due to drugs and other exogenous toxins	98	100.0	5	5.1	14	14.3	54	55.1	15	15.3	10	10.2	3	
With pellagra	76	100.0	14	18.4	17	22.4	43	56.6	2	2.6	...	...	6
With other somatic diseases	624	100.0	45	7.2	156	25.0	344	55.1	62	9.9	17	2.7	34	
Manic-depressive	3,133	100.0	224	7.1	712	22.7	1,751	55.9	362	11.6	84	2.7	163	
Involution melancholia	610	100.0	27	4.4	90	14.8	387	63.4	83	13.6	23	3.8	17	
Dementia praecox	5,464	100.0	403	7.4	1,340	24.5	3,067	56.1	538	9.8	116	2.1	248	
Paranoia or paranoid conditions	460	100.0	25	5.4	97	21.1	280	60.9	40	8.7	18	3.9	15	
Epileptic psychoses	534	100.0	82	15.4	143	26.8	267	50.0	35	6.6	7	1.3	17	
Psychoneuroses and neuroses	430	100.0	13	3.0	72	16.7	248	57.7	78	18.1	19	4.4	2	
With psychopathic personality	479	100.0	42	8.5	117	24.4	255	53.2	54	11.3	11	2.3	9	
With mental deficiency	631	100.0	243	38.5	215	34.1	169	26.8	3	0.5	1	0.2	19	
Undiagnosed psychoses	542	100.0	86	15.9	123	22.7	274	50.6	42	7.7	17	3.1	58	
Without psychosis	675	100.0	147	21.8	155	23.0	280	41.5	72	10.7	21	3.1	25	
Total	20,238	100.0	2,054	10.1	4,565	22.6	11,257	55.6	1,852	9.2	510	2.5	1,122	

Table 8. Environment of first admissions to 72 state hospitals for mental diseases, classified with reference to principal psychoses, for the fiscal year 1920

PSYCHOSES	TOTAL			URBAN			RURAL			UNASCERTAINED		
	MALES		FEMALES	MALES		FEMALES	MALES		FEMALES	MALES		FEMALES
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	45	2	47	31	2	33	14	...	14	...	...	...
Senile	1,243	1,303	2,546	714	897	1,611	502	385	887	27	21	48
With cerebral arteriosclerosis	817	557	1,374	570	431	1,001	240	123	363	7	3	10
General paralysis	1,832	391	2,223	1,573	329	1,902	242	55	297	17	7	24
With cerebral syphilis	145	82	227	108	74	182	31	8	39	6	...	6
With Huntington's chorea	15	21	36	9	13	22	6	7	13	...	1	1
With brain tumor	23	14	37	18	12	30	5	2	7	...	1	...
With other brain or nervous diseases	91	54	145	70	39	109	20	14	34	1	1	2
Alcoholic	416	64	480	341	59	400	73	4	77	2	1	3
Due to drugs and other exogenous toxins	51	51	102	/	39	46	85	11	5	16	1	1
With pellagra	24	60	84	9	27	36	15	33	48	...	...	...
With other somatic diseases	273	406	679	165	282	447	99	115	214	9	9	18
Manic-depressive	1,427	1,951	3,378	894	1,378	2,272	507	552	1,059	26	21	47
Involution melancholia	191	437	628	117	300	417	74	131	205	...	6	6
Dementia praecox	3,260	2,567	5,827	2,381	1,895	4,276	791	653	1,444	88	19	107
Paranoia or paranoid conditions	248	252	500	167	180	347	80	68	148	1	4	5
Epileptic psychoses	350	221	571	216	143	359	132	77	209	2	1	3
Psychoneuroses and neuroses	174	259	433	109	183	292	64	74	138	1	2	3
With psychopathic personality	299	193	492	229	154	383	60	37	97	10	2	12
With mental deficiency	389	296	685	218	197	415	164	96	260	7	3	10
Undiagnosed psychoses	301	299	600	223	237	460	71	50	129	7	4	11
Without psychosis	484	239	723	331	167	498	145	70	215	8	2	10
Total	12,098	9,719	21,817	8,532	7,045	15,577	3,346	2,567	5,913	220	107	327

Table 9. Economic condition of first admissions to 69 state hospitals for mental diseases, classified with reference to principal psychoses, for the fiscal year 1920

PSYCHOSES	TOTAL ASCERTAINED		DEPENDENT		MARGINAL		COMFORTABLE		UN- ASCER- TAINED
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Traumatic	41	100.0	6	14.6	22	53.7	13	31.7	1
Senile	2,241	100.0	711	31.7	955	42.6	575	25.7	111
With cerebral arteriosclerosis	1,235	100.0	240	19.4	601	48.7	394	31.9	54
General paralysis	2,069	100.0	330	15.9	1,341	64.8	398	19.2	78
With cerebral syphilis	208	100.0	59	28.4	109	52.4	40	19.2	8
With Huntington's chorea	33	100.0	12	36.4	15	45.5	6	18.2	1
With brain tumor	33	100.0	3	9.1	28	84.8	2	6.1	3
With other brain or nervous diseases	141	100.0	28	19.9	80	56.7	33	23.4	2
Alcoholic	431	100.0	68	15.8	284	65.9	79	18.3	17
Due to drugs and other exogenous toxins	97	100.0	25	25.8	48	49.5	24	24.7	...
With pellagra	61	100.0	24	39.3	21	34.4	16	26.2	2
With other somatic diseases	577	100.0	84	14.6	334	57.9	159	27.6	17
Manic-depressive	2,954	100.0	455	15.4	1,713	58.0	786	26.6	90
Involution melancolia	614	100.0	64	10.4	288	46.9	262	42.7	9
Dementia praecox	5,265	100.0	952	18.1	3,323	63.1	990	18.8	148
Paranoia or paranoid conditions	421	100.0	105	24.9	196	46.6	120	28.5	10
Epileptic psychoses	451	100.0	164	36.4	203	45.0	84	18.6	45
Psychoneuroses and neuroses	393	100.0	42	10.7	185	47.1	166	42.2	6
With psychopathic personality	443	100.0	121	27.3	259	58.5	63	14.2	8
With mental deficiency	599	100.0	246	41.1	280	46.7	73	12.2	20
Undiagnosed psychoses	533	100.0	76	14.3	341	64.0	116	21.8	22
Without psychosis	633	100.0	164	25.9	271	42.8	198	31.3	17
Total	19,473	100.0	3,979	20.4	10,897	56.0	4,597	23.6	669

Table 10. Use of alcohol by first admissions to 69 state hospitals for mental diseases, classified with reference to principal psychoses, for the fiscal year 1920

Table 11. Marital condition of first admissions to 72 state hospitals for mental diseases, classified with reference to principal psychoses, for the fiscal year 1920

PSYCHOSIS	TOTAL			SINGLE			MARRIED		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	45	2	47	11	..	197	11	30	1
Senile	1,238	1,303	2,546	167	..	364	575	263	31
With cerebral arteriosclerosis	817	557	1,374	107	82	189	483	201	838
General paralysis	1,832	391	2,223	454	31	485	1,105	249	684
With cerebral syphilis	145	82	227	35	13	48	75	42	1,354
With Huntington's chorea	15	21	36	3	7	10	5	8	117
With brain tumor	23	14	37	6	5	11	16	5	13
With other brain or nervous diseases	91	54	145	32	14	46	48	25	21
Alcoholic	416	64	480	174	11	185	193	35	73
Due to drugs and other exogenous toxins	51	51	102	14	7	21	33	19	228
With pellagra	24	60	84	6	9	15	15	44	52
With other somatic diseases	273	406	679	103	68	171	136	281	59
Manic-depressive	1,427	1,951	3,378	628	480	1,108	652	1,222	417
Involution melancholia	191	437	628	25	102	127	134	251	1,874
Dementia praecox	3,260	2,567	5,827	2,401	1,100	3,501	649	1,131	385
Paranoia or paranoid conditions	248	252	500	101	51	152	117	125	1,780
Epileptic psychoses	350	221	571	224	111	335	84	85	242
Psychoneuroses and neuroses	174	259	433	89	75	164	72	152	169
With psychopathic personality	299	193	492	212	77	289	59	93	224
With mental deficiency	389	296	685	335	182	517	42	76	152
Undiagnosed psychoses	301	299	600	123	84	207	147	164	118
Without psychosis	484	239	723	284	116	400	144	78	311
Total	12,098	9,719	21,817	5,534	2,822	8,356	4,814	4,550	9,364

Table 11. Marital condition of first admissions to 72 state hospitals for mental diseases, classified with reference to principal psychoses, for the fiscal year 1920—(Concluded)

PSYCHOSES	WIDOWED			SEPARATED			DIVORCED			UNASCERTAINED		
	Males		Females	Total	Males	Females	Total	Males	Females	Total	Males	Females
												Total
Traumatic	3	1	4	7	10	25	1	16	41	31	38	69
Senile	430	779	1,209	15	11	24	25	7	17	8	4	12
With cerebral arteriosclerosis	252	448	13	21	55	48	25	12	73	34	1	35
General paralysis	64	221	34	2	5	7	5	1	12	7	2	9
With cerebral syphilis	18	18	36	3	2	3	2	1	1	1	1	1
With Huntington's chorea	4	5	9	3	2	3	2	1	1	1	1	1
With brain tumor	1	3	4	2	2	2	2	1	1	1	1	1
With other brain or nervous diseases	8	14	22	2	2	2	2	1	1	1	1	1
Alcoholic	29	14	43	4	3	7	11	5	11	5	5	6
Due to drugs and other exogenous toxins	3	11	14	1	1	7	8	5	5	5	2	2
With pellagra	2	4	6	1	1	2	2	1	6	8	5	8
With other somatic diseases	22	44	66	5	4	9	2	1	34	59	19	21
Manic-depressive	83	149	232	20	45	65	25	13	110	60	18	40
Involution melancholia	23	68	91	2	7	9	6	7	13	1	2	3
Dementia praecox	67	196	263	36	59	95	47	63	110	60	18	78
Paranoia or paranoid conditions	20	49	69	4	11	15	5	13	18	1	3	4
Epileptic psychoses	20	15	35	6	5	11	10	5	15	6	6	6
Psychonemroses and neuroses	10	19	29	10	3	3	3	10	13	13	13	13
With psychopathic personality	8	11	19	10	6	16	6	4	10	4	2	6
With mental deficiency	6	18	24	1	12	13	1	4	5	4	4	8
Undiagnosed psychoses	17	41	58	5	7	12	5	2	7	4	1	5
Without psychosis	32	23	55	4	7	11	8	12	20	12	3	15
Total	1,158	1,799	2,957	169	221	390	220	219	439	202	109	311

Table 12. Discharges of patients from 69 state hospitals for mental diseases, classified with reference to principal psychoses and condition on discharge, for the fiscal year 1920

PSYCHOSES	TOTAL			RECOVERED			IMPROVED			UNIMPROVED		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
42	3	45	20	1	21	19	1	20	20	3	1	4
Senile	178	191	369	9	4	13	92	107	199	77	80	157
With cerebral arteriosclerosis	136	119	255	15	6	21	85	83	168	36	30	66
General paralysis	387	103	490	10	3	13	237	70	307	140	30	170
With cerebral syphilis	44	36	80	4	5	9	29	25	54	11	6	17
With Huntington's chorea	1	3	4	1	1	1	1	1	3	1	1	1
With brain tumor	2	2	4	1	1	1	1	1	2	1	1	1
With other brain or nervous diseases	29	21	50	9	7	16	16	8	24	4	6	10
Alcoholic	635	131	766	390	71	461	215	48	263	30	12	42
Due to drugs and other exogenous toxins	48	94	142	32	36	68	12	9	21	4	1	5
With pelagra	13	37	50	4	10	14	6	21	27	3	6	9
With other somatic diseases	156	275	431	122	196	318	25	67	92	9	12	21
Manic-depressive	1,682	2,273	3,955	1,065	1,481	2,546	527	677	1,204	90	115	205
Involution melancholia	106	277	383	44	114	158	46	131	177	16	32	48
Dementia praecox	2,053	1,615	3,668	186	171	357	1,350	1,098	2,448	517	346	863
Paranoia or paranoid conditions	193	181	374	39	20	59	111	120	231	43	41	84
Epileptic psychoses	146	126	272	25	29	54	78	62	140	43	35	78
Psychoneuroses and neuroses	138	236	374	59	103	162	63	99	162	16	34	50
With psychopathic personality	258	166	424	130	87	217	100	58	158	28	21	49
With mental deficiency	243	186	429	88	78	166	107	77	184	48	31	79
Undiagnosed psychoses	165	155	320	55	52	107	79	71	150	31	32	63
Without psychosis	463	240	703	...	...	...	...	...	...	...	...	...
Total	7,118	6,422	13,540	2,306	2,475	4,781	3,198	2,836	6,034	1,151	871	2,022

WITHOUT PSYCHOSIS—Males, 463; females, 240; total, 703.

Table 13. Rates of recovery and improvement of patients discharged from 75 state hospitals for mental diseases for the fiscal year 1920

STATE HOSPITAL	RECOVERED						IMPROVED					
	NUMBER			PER CENT OF TOTAL ADMISSIONS			NUMBER			PER CENT OF TOTAL ADMISSIONS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
ARIZONA State Hospital (Phoenix)	20	7	27	13.4	11.1	12.7	53	17	70	35.6	27.0	33.0
CALIFORNIA Mendocino (Talmage)	63	13	76	17.7	24.5	18.6	36	13	49	10.1	24.5	12.0
COLORADO State Hospital (Pueblo)	22	39	61	8.4	20.5	13.5	29	40	69	11.1	21.1	15.3
CONNECTICUT State Hospital (Middletown)	20	56	76	9.3	22.9	16.6	53	61	114	24.8	24.9	24.8
INDIANA Central (Indianapolis)	14	28	42	12.3	24.1	18.3	42	47	89	36.8	40.5	38.7
Eastern (Richmond)	17	17	34	21.0	30.4	24.8	24	10	34	29.6	17.9	24.8
Northern (Logansport)	5	12	17	5.1	12.6	8.8	41	43	84	41.4	45.3	43.3
Southeastern (Madison)	9	13	22	6.4	11.4	8.7	33	37	70	23.6	32.5	27.6
IOWA Cherokee	34	28	62	22.1	28.0	24.4	.....	.....	7	1.6	3.3	2.3
Clarinda	55	35	90	29.7	28.7	29.3	3	4	16	5.7	4.3	5.1
Independence	35	34	69	19.9	24.3	21.8	10	6	2	1.4	2.0	1.6
Mount Pleasant	20	33	53	13.7	33.3	21.6	2	2	4	1.4	2.0	1.6
MAINE Augusta	29	25	54	15.0	16.0	15.5	43	32	75	22.3	20.5	21.5
Bangor	29	17	46	18.5	17.5	18.1	45	33	78	28.7	34.0	30.7
MARYLAND Spring Grove (Catonsville)	24	27	51	24.5	48.2	33.1	11	3	14	11.2	5.4	9.1

Table 13. Rates of recovery and improvement of patients discharged from 75 state hospitals for mental diseases for the fiscal year 1920—(Continued)

STATE HOSPITAL	RECOVERED				IMPROVED				PER CENT OF TOTAL ADMISSIONS			
	NUMBER		PER CENT OF TOTAL ADMISSIONS		NUMBER		PER CENT OF TOTAL ADMISSIONS		Males		Females	
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
MASSACHUSETTS												
Boston	21	40	61	30.9	29.9	30.2	38	57	95	55.9	42.5	47.0
Bridgewater	9	19	51	13.2	13.2	13.2	13	13	13	19.1	19.1	19.1
Danvers (Hathorne)	32	4	8	6.2	8.5	7.7	14	143	242	33.6	46.9	40.3
Foxborough	4	2	3	5.7	11.8	7.7	16	9	30	20.0	47.1	28.8
Gardner	1			3.7	6.9	5.4	5	9	18	33.3	31.0	32.1
Grafton (Worcester)												
Medfield (Harding)	7	3	10	12.3	8.1	10.6	13	12	25	27.8	58.3	40.0
Northampton	26	46	72	12.3	21.5	16.9	44	27	71	25.2	32.4	26.6
Infirmary (Tewksbury)												
Taunton	34	18	52	16.4	9.0	12.7	57	57	67	12.4	8.0	20.0
Westborough	12	28	40	8.5	14.0	11.7	77	77	112	27.5	33.3	30.4
Worcester	25	33	58	9.1	15.4	11.8	101	47	148	189	54.6	56.0
MICHIGAN												
Ionia	5	...	5	9.8	9.4	9.4	3	...	3	5.9	5.9	5.7
Kalamazoo	14	42	56	9.1	14.9	8.1	83	62	145	20.4	22.1	21.1
Pontiac	36	27	63	14.9	18.6	16.3	42	42	84	17.4	29.0	21.8
NEBRASKA												
Hastings	19	3	22	17.9	5.2	13.4	21	...	21	19.8	19.8	12.8
Lincoln	1	1	1	...	0.8	0.4	29	35	64	17.7	28.9	22.5
NEW HAMPSHIRE												
State Hospital (Concord)	27	22	49	15.7	13.4	14.6	34	32	66	19.8	19.5	19.6
NEW JERSEY												
Morris Plains	86	84	170	28.3	29.1	28.7	55	71	126	18.1	24.6	21.2
Trenton	159	173	332	39.5	49.9	44.3	49	19	68	12.2	5.5	9.1

Table 13. Rates of recovery and improvement of patients discharged from 75 state hospitals for mental diseases for the fiscal year 1920—(Continued)

STATE HOSPITAL	RECOVERED						IMPROVED					
	NUMBER			PER CENT OF TOTAL ADMISSIONS			NUMBER			PER CENT OF TOTAL ADMISSIONS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
NEW YORK												
Binghamton	37	32	69	22.4	23.5	22.9	54	25	79	32.7	18.4	26.2
Brooklyn	40	96	136	10.8	18.3	15.2	52	71	123	14.1	13.5	13.8
Buffalo	28	49	77	12.2	23.3	17.5	49	50	99	21.3	23.8	22.5
Central Islip	103	155	258	12.2	22.5	16.8	220	141	361	26.0	20.5	23.5
Dannemora	45	... ..	45	69.2	... ..	69.2	10	... ..	10	15.4	... ..	15.4
Gowanda Homeopathic (Collins)	37	34	71	24.3	38.6	29.6	42	26	68	27.6	29.5	28.3
Hudson River (Poughkeepsie)	30	56	86	10.1	17.4	13.9	56	89	145	18.9	27.7	23.5
Kings Park	87	123	210	17.3	32.2	33.7	157	123	280	31.2	32.2	31.6
Manhattan (Ward's Island) ..	158	199	357	17.3	21.1	19.2	194	207	401	21.3	21.9	21.6
Matteawan (Beacon) ..	23	4	27	20.5	33.3	21.8	28	7	35	25.0	58.3	28.2
Middletown Homeopathic ..	25	35	60	24.5	23.8	24.1	24	24	48	23.5	16.3	19.3
Rochester ..	37	55	92	18.2	22.7	20.7	56	59	115	27.6	24.4	25.8
St. Lawrence (Ogdensburg) ..	35	37	72	23.6	26.1	24.8	31	16	47	20.9	11.3	16.2
Utica ..	50	51	101	27.8	27.1	27.4	28	28	56	15.6	14.9	15.2
Willard ..	40	49	89	19.0	27.1	22.8	34	18	52	16.2	9.9	13.3
NORTH CAROLINA												
State Hospital (Morganton) ..	27	19	46	15.9	11.4	13.7	29	20	49	17.1	12.0	14.6
Ohio												
Athens ..	45	34	79	34.4	28.1	31.3	35	27	62	26.7	22.3	24.6
Cleveland ..	54	38	92	14.3	14.2	14.2	147	97	244	38.9	36.2	37.8
Columbus ..	46	51	97	14.6	18.3	16.4	64	61	125	20.3	21.9	21.1
Dayton ..	17	18	35	8.1	10.6	9.2	85	63	148	40.7	37.1	39.1
Lima ..	17	5	22	35.4	166.7	43.1	10	... ..	10	2.1	... ..	19.6
Longview (Cincinnati) ..	10	2	12	4.2	1.1	2.9	41	37	78	17.1	21.1	18.8
Massillon ..	89	79	168	22.5	34.1	26.8	105	68	173	26.6	29.3	27.6
Toledo ..	76	63	139	22.8	24.1	23.4	93	80	173	27.9	30.7	29.1

Table 13. Rates of recovery and improvement of patients discharged from 75 state hospitals for mental diseases for the fiscal year 1920—(Concluded)

STATE HOSPITAL	RECOVERED						IMPROVED					
	NUMBER			PER CENT OF TOTAL ADMISSIONS			NUMBER			PER CENT OF TOTAL ADMISSIONS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
OREGON												
Eastern (Pendleton)	22	5	27	33.8	11.9	25.2	5	3	8	7.7	7.1	7.5
PENNSYLVANIA												
Harrisburg	37	30	67	23.6	27.8	25.3	31	11	42	19.7	10.2	15.8
Homeopathic (Allentown)	19	35	54	10.6	20.1	15.3	36	43	79	20.0	24.7	22.3
State Hospital (Danville)	13	29	42	7.7	20.0	13.4	44	37	81	26.0	25.5	25.8
State Hospital (Norristown)	36	33	69	12.7	16.8	14.4	51	13	64	18.0	6.6	13.3
Criminal (Waymart)	12	.....	12	20.7	.....	20.7	1	.....	1	1.7	.....	1.7
RHODE ISLAND												
State Hospital (Howard)	28	29	57	13.9	15.4	14.7	44	32	76	21.9	17.0	19.5
SOUTH CAROLINA												
State Hospital (Columbia)	55	50	105	18.0	12.3	12.9	75	103	178	24.5	25.2	21.9
SOUTH DAKOTA												
Yankton	33	29	62	25.6	35.8	29.5	35	22	57	27.1	27.2	27.1
TENNESSEE												
Eastern (Bearden)	6	13	19	3.1	7.1	5.0	68	73	141	35.2	39.7	37.4
TEXAS												
Southwestern (San Antonio)	33	45	78	19.4	28.1	23.6	26	42	68	15.3	26.2	20.6
VERMONT												
State Hospital (Waterbury)	6	1	7	5.6	1.1	3.4	17	15	32	15.7	15.8	15.8
VIRGINIA												
Central (Petersburg)	43	51	94	16.5	22.6	19.3	60	57	117	23.1	25.2	24.1
Eastern (Williamsburg)	24	14	38	13.6	13.1	13.4	54	24	78	30.7	22.4	27.6
Southwestern (Marion)	59	39	98	31.6	39.4	34.3	29	18	47	15.5	18.2	16.4
WASHINGTON												
Western (Fort Steilacoom)	42	51	93	15.3	40.2	23.2	97	38	135	35.4	29.9	33.7

Table 14. Total duration of hospital life of patients dying in 71 state hospitals for mental diseases, classified according to principal psychoses, for the fiscal year 1920

PSYCHOSES	TOTAL			LESS THAN 1 MONTH			1—3 MONTHS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	15	1	16	5	5	5	3	3	3
Senile	1,103	1,142	2,245	250	163	413	243	216	459
With cerebral arteriosclerosis	683	387	1,070	196	86	282	174	84	258
General paralysis	1,592	385	1,977	211	42	253	314	87	401
With cerebral syphilis	94	44	138	16	6	22	16	6	22
With Huntington's chorea	16	12	28	1	1	1	1	2	3
With brain tumor	15	8	23	4	1	5	7	5	12
With other brain or nervous diseases	54	47	101	15	12	27	12	7	19
Alcoholic	163	40	203	4	1	5	12	3	15
Due to drugs and other exogenous toxins	7	8	15	4	1	5	5	2	2
With pellagra	18	54	72	2	14	16	6	16	22
With other somatic diseases	124	141	265	72	86	158	27	26	53
Manic-depressive	599	733	1,332	65	136	201	53	82	135
Involution melancholia	121	213	334	12	33	45	18	34	52
Dementia praecox	1,112	1,178	2,290	32	41	73	19	57	76
Paranoia or paranoid conditions	82	117	199	1	5	6	4	4	8
Epileptic psychoses	284	192	476	14	8	22	15	11	26
Psychoneuroses and neuroses	14	25	39	2	2	4	3	4	7
With psychopathic personality	30	32	62	2	2	2	2	2	4
With mental deficiency	128	119	247	3	4	7	7	5	12
Undiagnosed psychoses	93	101	194	33	42	75	12	15	27
Without psychosis	61	33	94	12	9	21	8	2	10
Total	6,408	5,012	11,420	956	692	1,648	956	670	1,626

Table 14. Total duration of hospital life of patients dying in 71 state hospitals for mental diseases, classified according to principal psychoses, for the fiscal year 1920—(Continued)

PSYCHOSES	4—7 MONTHS			8—12 MONTHS			1—2 YEARS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Tranquile	1	...	1	...	1	1	1	1	1
Senile	160	161	321	94	104	198	176	232	408
With cerebral arteriosclerosis	101	61	162	51	31	82	92	58	150
General paralysis	250	53	303	175	41	216	473	111	584
With cerebral syphilis	22	7	29	7	2	1	15	18	11
With Huntington's chorea	1	1	2	1	1	2	3	2	4
With brain tumor	...	...	...	...	...	...	1	1	1
With other brain or nervous diseases	5	4	9	3	3	6	10	6	16
Alcoholic	9	4	13	3	1	4	24	5	29
Due to drugs and other exogenous toxins	...	2	2	1	1	2	...	1	1
With pellagra	5	9	14	4	4	4	2	2	8
With other somatic diseases	9	13	22	5	3	8	9	6	15
Manic-depressive	54	52	106	42	37	79	81	93	174
Involuntion melancholia	15	19	34	9	8	17	23	28	51
Dementia precox	46	66	112	41	30	71	141	138	279
Paranoia or paranoid conditions	4	4	8	4	7	11	7	12	19
Epileptic psychoses	13	12	25	13	5	18	58	33	91
Psychoneuroses and neuroses	3	2	5	...	...	...	2	7	9
With psychopathic personality	1	6	7	1	1	2	8	6	14
With mental deficiency	9	10	19	7	6	13	17	19	36
Undiagnosed psychoses	11	10	21	1	4	5	11	15	26
Without psychosis	4	1	5	4	1	5	10	9	19
Total	723	498	1,221	464	297	761	1,166	800	1,966

Table 14. Total duration of hospital life of patients dying in 71 state hospitals for mental diseases, classified according to principal psychoses, for the fiscal year 1920—(Continued)

PSYCHOSES	3—4 YEARS			5—6 YEARS			7—8 YEARS			9—10 YEARS		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	2	...	2	26	53	79	22	26	48	2	18	20
Senile	74	100	174	11	11	22	5	2	7	4	9	16
With cerebral arteriosclerosis	34	33	67	15	15	39	10	4	14	9	5	16
General paralysis	117	30	147	24	4	4	1	1	2	1	1	2
With cerebral syphilis	8	2	10	1	3	1	4	2	2	2	1	3
With Huntington's chorea	1	...	1	...	1	...	1	...	1	...	1	...
With brain tumor	...	...	...	...	...	...	...	...	...	...	...	...
With other brain or nervous diseases	5	6	11	1	7	8	2	1	3	1	8	9
Alcoholic	30	3	33	19	6	25	16	1	17	1	5	5
Due to drugs and other exogenous toxins	1	...	1	1	3	4	1	1	1	1	1	1
With pellagra	1	4	5	...	...	...	...	...	...	...	...	...
With other somatic diseases	57	49	106	31	42	73	21	42	63	26	25	51
Manic-depressive	9	18	27	5	18	23	12	12	12	6	14	20
Involution melancholia	126	104	230	77	89	166	78	67	145	63	53	116
Dementia praecox	8	13	21	2	7	9	8	11	19	5	9	14
Paranoia or paranoid conditions	48	25	73	22	24	46	23	8	31	21	16	37
Epileptic psychoses	...	...	...	6	6	2	2	1	1	1	1	1
Psychoneuroses and neuroses	5	8	13	1	2	3	1	1	4	2	2	2
With psychopathic personality	14	17	31	16	13	29	9	6	15	10	5	15
With mental deficiency	9	4	13	1	2	3	2	4	6	3	2	5
Undiagnosed psychoses	4	2	6	5	...	5	2	2	5	2	2	7
Without psychosis	...	...	...	...	...	...	...	...	...	...	...	...
Total	553	424	977	252	293	545	203	190	393	186	157	343

Table 14. Total duration of hospital life of patients dying in 71 state hospitals for mental diseases, classified according to principal psychoses, for the fiscal year 1920—(Concluded)

PSYCHOSES	11—12 YEARS			13—14 YEARS			15—19 YEARS			20 YEARS AND OVER		
	Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
Traumatic	7	17	24	8	5	13	8	18	26	1	31	1
Senile	2	1	3	3	3	6	7	4	11	3	8	11
With cerebral arteriosclerosis	4	4	8	1	1	2	1	1	2	3	1	4
General paralysis	1	1	2	1	1	2	1	1	1	1	1	1
With cerebral syphilis	1	1	1	1	1	1	1	1	1	1	1	1
With Huntington's chorea	1	1	1	1	1	1	1	1	1	1	1	1
With brain tumor	1	1	1	1	1	1	1	1	1	1	1	1
With other brain or nervous diseases	1	1	1	10	3	13	12	2	14	6	3	9
Alcoholic	10	3	13	1	1	1	1	1	1	1	1	1
Due to drugs and other exogenous toxins	1	1	1	1	1	1	1	1	1	1	1	1
With pellagra	1	1	1	1	1	1	1	1	1	1	1	1
With other somatic diseases	1	1	1	1	1	1	1	1	1	1	1	1
Manic-depressive	20	33	53	17	19	36	47	46	93	85	77	162
Involuntary melancholia	2	8	10	9	9	5	3	8	17	9	26	590
Dementia precox	56	50	106	45	61	106	98	122	220	290	300	590
Paranoia or paranoid conditions	5	16	21	7	9	16	10	4	14	17	16	33
Epileptic psychoses	11	3	14	13	9	22	14	14	28	19	24	43
Psychoneuroses and neuroses	1	1	1	1	1	1	1	1	1	1	1	2
With psychopathic personality	4	4	4	4	4	4	3	1	4	2	1	3
With mental deficiency	8	2	10	3	4	7	8	10	18	17	18	35
Undiagnosed psychoses	2	2	2	1	1	1	1	1	4	4	2	6
Without psychosis	3	3	3	2	2	2	2	3	7	7	2	2
Total	133	141	274	113	123	236	220	231	451	483	496	979

Table 15. Deaths in 76 state hospitals for mental diseases for the fiscal year 1920, and death rates per 1,000 of patients under treatment for the years 1910, 1918, and 1920

STATE HOSPITAL	DEATHS IN 1920						RATE PER 1,000 OF PATIENTS UNDER TREATMENT		
	NUMBER			RATE PER 1,000 OF PATIENTS UNDER TREATMENT			1918	1910	
	Males	Females	Total	Males	Females	Total			
ARIZONA	6,630	5,162	11,792	84.5	70.6	77.8	85.5	73.3	
State Hospital (Phoenix)	59	26	85	112.0	123.2	115.2	*	93.2	
CALIFORNIA	63	14	77	56.8	34.7	50.9	62.4	52.0	
Mendocino (Talmage)	144	61	205	105.7	60.1	86.2	93.8	53.4	
COLORADO	118	121	239	77.9	73.2	75.5	88.9	65.9	
State Hospital (Pueblo)	68	38	106	85.4	41.9	62.2	80.0	75.7	
CONNECTICUT	38	23	61	69.9	45.6	58.2	53.7	68.6	
State Hospital (Middletown)	46	44	90	70.1	70.4	70.3	87.0	66.8	
INDIANA	73	28	101	92.2	39.9	67.6	92.5	162.6	
Central (Indianapolis)	68	46	114	70.4	71.7	70.9	76.1	86.6	
Eastern (Richmond)	88	31	119	91.9	42.9	70.8	87.2	81.8	
Northern (Logansport)	65	43	108	69.3	54.2	62.4	73.3	73.6	
Southeastern (Madison)	79	39	118	85.8	55.2	72.5	75.8	66.4	
IOWA	.....	.....	.....	.....	.....	.....	.....	.....
Cherokee .....	.....	.....	.....	.....	.....	.....	.....	.....
Clarinda .....	.....	.....	.....	.....	.....	.....	.....	.....
Independence .....	.....	.....	.....	.....	.....	.....	.....	.....
Mount Pleasant .....	.....	.....	.....	.....	.....	.....	.....	.....
MAINE	.....	.....	.....	.....	.....	.....	.....	.....
Augusta	71	52	123	88.1	70.2	79.5	93.3	91.5	
Bangor	62	33	95	105.8	65.5	87.2	118.3	99.3	
MARYLAND	40	39	79	79.2	82.6	80.9	91.4	74.2	

* Unascertained

Table 15. Deaths in 76 state hospitals for mental diseases for the fiscal year 1920, and death rates per 1,000 of patients under treatment for the years 1910, 1918, and 1920—(Continued)

STATE HOSPITAL	DEATHS IN 1920			RATE PER 1,000 OF PATIENTS UNDER TREATMENT		
	NUMBER			RATE PER 1,000 OF PATIENTS UNDER TREATMENT		
	Males	Females	Total	Males	Females	Total
MASSACHUSETTS						
Boston	116	107	223	110.6	76.8	91.1
Bridgewater	30	...	30	33.1	...	33.1
Danvers (Hathorne)	96	106	202	87.9	77.6	82.2
Foxborough	23	14	37	72.6	43.9	58.2
Gardner	24	15	39	42.0	37.4	40.1
Grafton (Worcester)	29	20	49	30.2	19.5	24.7
Medfield (Harding)	41	51	92	55.9	48.2	51.3
Northampton	65	68	133	79.6	82.2	80.9
Infirmary (Tewksbury)	22	19	41	96.1	34.4	52.5
Taunton	112	99	211	115.2	98.9	106.9
Westborough	50	48	98	62.7	42.6	51.0
Worcester	140	90	230	95.4	67.6	82.1
MICHIGAN						
Ionia	18	...	18	36.4	...	31.7
Kalamazoo	191	123	314	128.6	88.2	109.1
Pontiac	117	51	168	109.7	60.3	87.8
NEBRASKA						
Hastings	63	44	107	69.3	85.3	75.1
Lincoln	61	43	104	104.3	71.8	87.8
NEW HAMPSHIRE						
State Hospital (Concord)	80	71	151	94.3	82.6	88.4
NEW JERSEY						
Morris Plains	98	120	218	61.5	71.4	66.6
Trenton	147	125	272	97.0	96.8	96.9
						100.2
						78.9

† Not open

Table 15. Deaths in 76 state hospitals for mental diseases for the fiscal year 1920, and death rates per 1,000 of patients under treatment for the years 1910, 1918, and 1920—(Continued)

STATE HOSPITAL	DEATHS IN 1920			RATE PER 1,000 OF PATIENTS UNDER TREATMENT			RATE PER 1,000 OF PATIENTS UNDER TREATMENT
	Males	Females	Total	Males	Females	Total	
NEW YORK							
Binghamton	103	83	186	60.0	59.6	59.8	72.9
Brooklyn	157	212	369	180.3	181.0	180.7	194.8
Buffalo	108	105	213	81.6	68.8	74.7	73.4
Central Islip	335	220	555	87.6	67.4	78.3	76.7
Dannemora	13	...	13	21.8	...	21.8	19.8
Gowanda Homeopathic (Collins)	52	28	80	59.6	43.4	52.2	66.0
Hudson River (Poughkeepsie)	163	175	338	86.4	75.5	80.4	84.5
Kings Park	168	147	315	65.6	46.7	55.2	76.4
Manhattan (Ward's Island)	390	316	706	109.7	72.9	89.5	92.8
Matteawan (Beacon)	28	8	36	32.1	54.8	35.3	40.4
Middletown Homeopathic	56	74	130	61.8	48.1	53.2	64.5
Rochester	77	91	168	85.4	72.0	77.6	100.9
St. Lawrence (Ogdensburg)	87	75	162	75.4	52.2	62.5	61.6
Utica	83	61	144	79.7	54.5	66.6	62.9
Willard	162	151	313	106.9	96.7	101.8	108.0
NORTH CAROLINA							
State Hospital (Morganton)	69	54	123	81.6	51.2	64.7	86.2
OHIO							
Athens	75	71	146	93.3	91.7	92.5	78.2
Cleveland	158	97	255	113.6	84.3	100.3	71.8
Columbus	125	96	221	92.2	77.5	85.2	87.5
Dayton	85	75	160	98.3	94.3	96.4	110.2
Lima	31	9	40	39.3	54.5	41.9	29.3
Longview (Cincinnati)	94	118	212	100.4	122.9	111.8	108.8
Massillon	106	61	167	74.4	55.0	65.9	94.6
Toledo	139	95	234	107.0	75.3	91.4	120.4

† Not open

Table 15. Deaths in 76 state hospitals for mental diseases for the fiscal year 1920, and death rates per 1,000 of patients under treatment for the years 1910, 1918, and 1920—(Concluded)

STATE HOSPITAL	DEATHS IN 1920			RATE PER 1,000 OF PATIENTS UNDER TREATMENT			RATE PER 1,000 OF PATIENTS UNDER TREATMENT	
	NUMBER			RATE PER 1,000 OF PATIENTS UNDER TREATMENT				
	Males	Females	Total	Males	Females	Total		
OREGON								
Eastern (Pendleton)	38	15	53	93.8	75.0	87.6	85.4	
PENNSYLVANIA							†	
Harrisburg	71	72	143	89.9	92.5	91.2	99.1	
Homeopathic (Allentown)	65	71	136	85.6	90.2	88.0	85.8	
Asylum (Wernersville)	33	6	39	44.5	27.6	40.7	44.0	
State Hospital (Danville)	76	57	133	69.7	60.0	65.2	20.1	
State Hospital (Norristown)	113	112	225	65.0	61.1	63.0	58.5	
Criminal (Waymart)	29	.....	29	51.5	.....	51.5	82.5
Western (Torrance)	3	.....	3	25.0	.....	25.0	67.0
RHODE ISLAND							†	
State Hospital (Howard)	130	109	239	120.1	109.5	115.1	103.6	
SOUTH DAKOTA							75.7	
Yankton	56	39	95	70.6	72.0	71.2	73.7	
TENNESSEE							73.8	
Eastern (Bearden)	37	44	81	72.4	76.4	74.5	127.7	
TEXAS							70.8	
Southwestern (San Antonio)	70	84	154	59.0	65.6	62.4	91.4	
VERMONT							75.2	
State Hospital (Waterbury)	53	53	106	115.0	117.0	116.0	96.4	
VIRGINIA							72.8	
Central (Petersburg)	167	120	287	137.2	110.5	124.6	136.2	
Eastern (Williamsburg)	66	30	96	106.6	54.2	81.9	76.4	
Southwestern (Mariou)	40	33	73	66.1	71.6	68.5	78.6	
WASHINGTON							53.3	
Western (Fort Steilacoom)	114	43	157	103.9	55.1	83.6	62.8	
							67.5	
							76.0	

† Not open

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